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UILIIY	First Inventor or Application Identifier Ming-Ming Zhou
PATENT APPLICATION	Title METHODS OF IDENTIFYING
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APPLICATION ELEMENTS	Assistant Commissioner for Patents  ADDRESS TO:  Box Patent Application
See MPEP chapter 600 concerning utility patent application contents  * Fee Transmittal Form (e.g., PTO/SB/17)  1. (Submit an original and a duplicate for fee processing)	5. Microfiche Computer Program (Appendix)
2. Specification [Total Pages 67 (preferred arrangement set forth below)	
<ul> <li>Descriptive title of the Invention</li> <li>Cross References to Related Applications</li> </ul>	a. Computer Readable Copy
- Statement Regarding Fed sponsored R & D	<ul><li>b. Paper Copy (identical to computer copy)</li><li>c. Statement verifying identity of above copies</li></ul>
- Reference to Microfiche Appendix	
Background of the Invention     Brief Summary of the Invention	ACCOMPANYING APPLICATION PARTS
Brief Description of the Drawings ( <i>if filed</i> )      Detailed Description	7. Assignment Papers (cover sheet & document(s))  37 C.F.R.§3.73(b) Statement Power of (when there is an assignee)  Attorney
- Claim(s)	9. English Translation Document (if applicable)
- Abstract of the Disclosure  3. Drawing(s) (35 U.S.C. 113) [Total Sheets 9]	Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Citations
4. Oath or Declaration unexecuted 70tal Pages 3	] 11. Preliminary Amendment
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## METHODS OF IDENTIFYING MODULATORS OF BROMODOMAINS

### FIELD OF THE INVENTION

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The present invention provides the three-dimensional structure of a histone acetyltransferase bromodomain. The three-dimensional structural information is included in the invention. The present invention also identifies for the first time, that bromodomains can bind to an acetylated binding partners. The interaction between bromodomains and their binding partners play a crucial role in various cellular functions, including in the regulation/modulation of DNA transcription. Therefore, the present invention provides procedures for identifying agents that can modulate the interaction of bromodomains and their binding partners by high throughput drug screening and/or through the use of rational drug design based on the three-dimensional data provided herein.

## **BACKGROUND OF THE INVENTION**

In recent years great strides have been made in the elucidation of the steps involved in 20 intercellular and intracellular signaling. Indeed, the individual steps of the cascade of events involved in a number of cellular signal transduction processes have been determined. For example, intercellular signal transduction generally begins with an intercellular ligand binding the extracellular portion of a receptor of the plasma membrane. The bound receptor then either directly or indirectly initiates the activation of one or more cellular factors. An activated cellular factor may act as 25 transcription factor by entering the nucleus to interact with its corresponding genomic response element, or alternatively, it may interact with other cellular factors depending on the complexity of the process. In either case, one or more transcription factors ultimately bind to one or more specific genomic response elements. This binding plays a crucial role in the up and/or down regulation of the transcription of 30 the specific genes that are under the control of these genomic response elements. However, the process of re-organizing the chromatin of eukaryotic cells, which is a prerequisite for the binding of the transcription factor to the genomic response elements, has remained a mystery.

Chromatin contains several highly conserved histone proteins including: H3, H4, H2A, H2B, and H1. These histone proteins package eukaryotic DNA into repeating nucleosomal units that are folded into higher-order chromatin fibers [Luger and Richmond, *Curr. Opin. Genet. Dev.* 8:140-146 (1998)]. A portion of the histone that comprises roughly a quarter of the protein protrudes from the chromatin surface, and is thereby sensitive to proteolytic enzymes [van Holde, in *Chromatin* (Rich, A,. *ed.*, Springer, New York) pages111-148 (1988); Hect *et al.*, *Cell* 80:583-592 (1995)]. This portion of the histone is known as the "histone tail". Histone tails tend to be free for protein-protein interaction, and are also the portion of the histone most prone to post-translational modification. Such post-translational modification includes acetylation, phosphorylation, methylation, ubiquitination, and ADP-ribosylation [van Holde, in *Chromatin* (Rich, A,. *ed.*, Springer, New York) pages111-148 (1988)].

Of all classes of proteins, histones are amongst the most susceptible to post-translational modification. Perhaps the best studied post-translational modification of histones is the acetylation of specific lysine residues [Grunstin, M., Nature, 389:349-352 (1997)]. Indeed, acetylation of histone lysine residues has been suggested to play a pivotal role in chromatin remodeling and gene activation. Consistently, distinct classes of enzymes, namely histone acetyltransferases (HATs) and histone deacetylases (HDACs), acetylate or de-acetylate specific histone lysine residues [Struhl, Genes Dev. 12:599-606 (1998)].

Nearly all known nuclear HATs contain an approximately 110 amino acid sequence
known as the bromodomain [Jeanmougin et al., Trends in Biochemical Sciences,
22:151-153 (1997)], a protein motif that was initially discovered in Drosophila
brahma protein. Bromodomains are found in a large number of chromatin-associated
proteins and have now been identified in approximately 40 proteins, often adjacent to
other protein motifs [Jeanmougin et al., Trends in Biochemical Sciences, 22:151-153
(1997); Tamkun et al., Cell, 68:561-572 (1992): Hanes et al., Nucleic Acids Research,
20:2603 (1992)]. Proteins that contain a bromodomain often contain a second
bromodomain. However, despite the wide occurrence of bromodomains and their

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likely role in chromatin regulation, their three-dimensional structure and binding partners heretofore have remained unknown.

Therefore, there is a need to identify a binding partner for a bromodomain. In addition, there is a need to identify agonists or antagonists to the bromodomain-binding partner complex. Since a preferred method of drug-screening relies on structure based drug design, there is also a need to determine the three-dimensional structure of a bromodomain. In this case, once the three dimensional structure of bromodomain is determined, potential agonists and/or potential antagonists can be designed with the aid of computer modeling [Bugg et al., Scientific American,

Dec.:92-98 (1993); West et al., TIPS, 16:67-74 (1995); Dunbrack et al., Folding & Design, 2:27-42 (1997)]. However, heretofore the three-dimensional structure of the bromodomain has remained unknown. Therefore, there is a need for obtaining a form of the bromodomain that is amenable for NMR analysis and/or X-ray crystallographic analysis. Furthermore, there is a need for the determination of the three-dimensional structure of the bromodomain. Finally, there is a need for procedures for related structural based drug design predicated on such structural data.

The citation of any reference herein should not be construed as an admission that such reference is available as "Prior Art" to the instant application.

## **SUMMARY OF THE INVENTION**

25 lysine residues of proteins. The present invention also provides the three-dimensional structure of a bromodomain as well as the three-dimensional structure of a bromodomain-acetyl-histamine complex. The structural information provided can be employed in methods of identifying drugs that can modulate the cellular processes that involve bromodomain-acetyl-lysine interactions. These interactions include chromatin remodeling, which is a required step in eukaryotic transcription. In a particular embodiment, the three-dimensional structural information is used in the design of an inhibitor of leukemia.

The present invention provides an isolated nucleic acid that encodes a peptide consisting of about 21 to 40 amino acids that comprises a ZA loop of a bromodomain. In a preferred embodiment the peptide comprises about 23 to 34 amino acids. The isolated nucleic acid can further comprise a heterologous nucleotide sequence.

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In a preferred embodiment the peptide comprises the amino acid sequence of SEQ ID NO:3. In another embodiment the peptide comprises the amino acid sequence of SEQ ID NO:43. In particular embodiments the ZA loop is obtained from the bromodomain having the amino acid sequence of SEQ ID NO:7, or SEQ ID NO:8, or SEQ ID NO:9, or SEQ ID NO:10, or SEQ ID NO:11, or SEQ ID NO:12, or SEQ ID NO:13, or SEQ ID NO:14, or SEQ ID NO:15, or SEQ ID NO:16, or SEQ ID NO:17, or SEQ ID NO:18, or SEQ ID NO:19, or SEQ ID NO:20, or SEQ ID NO:21, or SEQ ID NO: 22, or SEQ ID NO:23, or SEQ ID NO:24, or SEQ ID NO:25, or SEQ ID NO:26, or SEQ ID NO:27, or SEQ ID NO:28, or SEQ ID NO:29, or SEQ ID NO:30, or SEQ ID NO: or SEQ ID NO:31, or SEQ ID NO:32, or SEQ ID NO:33, or SEQ ID NO:34, or SEQ ID NO:35, or SEQ ID NO:36, or SEQ ID NO:37, or SEQ ID NO:38, or SEQ ID NO: or SEQ ID NO:39, or SEQ ID NO:40, or SEQ ID NO:41, or SEQ ID NO:42.

The present invention further provides a recombinant DNA molecule that comprises an isolated nucleic acid of the present invention, as described above, with or without a heterologous nucleotide sequence. Such a recombinant DNA molecule can be operatively linked to an expression control sequence and can be part of an expression vector. The present invention further provides a cell that comprises such an expression vector. The cell can be either a eukaryotic or a prokaryotic cell. The present invention further provides a method of expressing the peptides of the present invention or fragments thereof in this cell. One such method comprises culturing the cell in an appropriate cell culture medium under conditions that provide for expression of the peptide by the cell.

The present invention further provides a peptide consisting of about 21 to 40 amino acids that comprises a ZA loop of a bromodomain. In a preferred embodiment the

peptide comprises about 23 to 34 amino acids. The present invention also provides fusion proteins or peptides comprising these peptides.

In a preferred embodiment the peptide comprises the amino acid sequence of SEQ ID NO:3. In another embodiment the peptide comprises the amino acid sequence of SEQ ID NO:43. In particular embodiments the ZA loop is obtained from the bromodomain having the amino acid sequence of SEQ ID NO:7, or SEQ ID NO:8, or SEQ ID NO:9, or SEQ ID NO:10, or SEQ ID NO:11, or SEQ ID NO:12, or SEQ ID NO:13, or SEQ ID NO:14, or SEQ ID NO:15, or SEQ ID NO:16, or SEQ ID NO:17, or SEQ ID NO:18, or SEQ ID NO:19, or SEQ ID NO:20, or SEQ ID NO:21, or SEQ ID NO: 22, or SEQ ID NO:23, or SEQ ID NO:24, or SEQ ID NO:25, or SEQ ID NO:26, or SEQ ID NO:27, or SEQ ID NO:38, or SEQ ID NO:30, or SEQ ID NO: or SEQ ID NO:31, or SEQ ID NO:32, or SEQ ID NO:33, or SEQ ID NO:34, or SEQ ID NO:35, or SEQ ID NO:36, or SEQ ID NO:37, or SEQ ID NO:38, or SEQ ID NO:40.

The present invention also provides antibodies raised against the peptides/proteins of the present invention, or raised against an antigenic fragment of these proteins/fragments. In a particular embodiment an antibody is raised against a fragment of the ZA loop of a bromodomain. In another embodiment an antibody is raised against a fragment of a protein or peptide that comprises an acetyl-lysine, wherein the protein or peptide can bind to a bromodomain. Such fragments can be conjugated to a carrier protein or be part of a fusion protein. In one embodiment the antibody is a polyclonal antibody. In another embodiment, the antibody is a monoclonal antibody. A hybridoma that makes the monoclonal antibody is also part of the present invention. In a particular embodiment the antibody is a chimeric antibody. Antibodies that can specifically recognize acetyl-lysine residues involved bromodomain binding are also part of the present invention.

30 In another aspect of the present invention a method is provided for identifying a compound that modulates the affinity of a bromodomain for a ligand (and/or protein) that comprises an acetylated lysine. One such embodiment comprises contacting the

bromodomain and the ligand in the presence of a compound under conditions that, the bromodomain and the ligand bind in the absence of the compound. The affinity of the bromodomain for the ligand is then determined (e.g., measured). A compound is identified as a compound that modulates the affinty of the bromodomain for the ligand when there is a change in the affinity of the bromodomain for the ligand in the presence of the compound. When the affinity of the bromodomain for the ligand increases in the presence of the compound, the compound is identified as a promoting agent for the bromodomain-ligand complex. When the affinity of the bromodomain for the ligand decreases in the presence of the compound, the compound is identified as an inhibitor of the bromodomain-ligand complex. In a preferred embodiment, the 10 compound to be tested is pre-selected by performing rational drug design with the set of atomic coordinates obtained from one or more of Tables 1-6. More preferably the selecting is performed in conjunction with computer modeling. In a particular embodiment, the compound is selected by performing rational drug design with the set of atomic coordinates obtained from a set of atomic coordinates defining the three-15 dimensional structure of a bromodomain consisting of the amino acid sequence of SEO ID NO:7 alone or with acetyl-histamine.

The present invention also provides a method of identifying a compound that modulates the stability of a bromodomain-acetyl-lysine binding complex. One such embodiment comprises contacting the bromodomain-acetyl-lysine binding complex in the presence of the compound under conditions in which the bromodomain-acetyllysine binding complex forms in the absence of the compound. The stability of the bromodomain-acetyl-lysine binding complex is then determined (e.g., measured). A compound is identified as a compound that modulates the stability of the bromodomain-acetyl-lysine binding complex, when there is a change in the stability of the bromodomain-acetyl-lysine binding complex in the presence of that compound. When the stability of the bromodomain-acetyl-lysine binding complex increases in the presence of the compound, the compound is identified as a stabilizing agent. When the stability of the bromodomain-acetyl-lysine binding complex decreases in the 30 presence of the compound, the compound is identified as an inhibitor. In a preferred embodiment, the compound to be tested is pre-selected by performing rational drug

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design with the set of atomic coordinates obtained from one or more of Tables 1-6. More preferably the selecting is performed in conjunction with computer modeling. In a particular embodiment, the compound is selected by performing rational drug design with the set of atomic coordinates obtained from a set of atomic coordinates defining the three-dimensional structure of a bromodomain consisting of the amino acid sequence of SEQ ID NO:7 alone or with acetyl-histamine.

As anyone having skill in the art of drug development would readily understand, the potential drugs selected by the above methodologies can be refined by re-testing in appropriate drug assays, including those disclosed herein. Chemical analogs of such potential drugs can be obtained (either through chemical synthesis or drug libraries) and be analogously tested. Therefore, methods comprising successive iterations of the steps of the individual drug assays, as exemplified herein, using either repetitive or different binding studies, or transcription activation studies or other such studies are envisioned in the present invention. In addition, potential drugs may be identified first by rapid throughput drug screening, as described below, prior to performing computer modeling on a potential drug using the three-dimensional structure of the bromodomain.

20 The present invention further comprises all of the potential, selected, and putative compounds (drugs) identified by the methods of the present invention, as well as the final drugs themselves identified with the methods of the present invention.

25 partner for a protein (*e.g.*, a histone) comprising an acetyl-lysine. One such embodiment comprises contacting the protein with a polypeptide comprising a bromodomain. In a preferred embodiment the bromodomain comprises the amino acid sequence of SEQ ID NO:3. In particular embodiments the bromodomain has the amino acid sequence of SEQ ID NO:7, or SEQ ID NO:8, or SEQ ID NO:9, or SEQ ID NO:10, or SEQ ID NO:11, or SEQ ID NO:12, or SEQ ID NO:13, or SEQ ID NO:14, or SEQ ID NO:15, or SEQ ID NO:16, or SEQ ID NO:17, or SEQ ID NO:18, or SEQ ID NO:19, or SEQ ID NO:20, or SEQ ID NO:21, or SEQ ID NO:22, or SEQ ID NO:22, or SEQ ID NO:24,

NO:23, or SEQ ID NO:24, or SEQ ID NO:25, or SEQ ID NO:26, or SEQ ID NO:27, or SEQ ID NO:28, or SEQ ID NO:29, or SEQ ID NO:30, or SEQ ID NO: or SEQ ID NO:31, or SEQ ID NO:32, or SEQ ID NO: 33, or SEQ ID NO:34, or SEQ ID NO:35, or SEQ ID NO:36, or SEQ ID NO:37, or SEQ ID NO:38, or SEQ ID NO: or SEQ ID NO:39, or SEQ ID NO:40, or SEQ ID NO:41, or SEQ ID NO:42.

The present invention further provides a method for identifying a protein having a bromodomain. One such embodiment comprises contacting a cellular extract with a peptide comprising an acetyl-lysine.

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The present invention further provides agents that can inhibit the binding of a bromodomain with a protein comprising an acetyl-lysine. In one embodiment the agent is ISYGR-AcK-KRRQRR (SEQ ID NO:4). In another embodiment the agent is ARKSTGG-AcK-APRKQL (SEQ ID NO:5). In still another embodiment the agent is QSTSRHK-AcK-LMFKTE (SEQ ID NO:6). In yet another embodiment the agent is an analog of acetyl-lysine such as acetyl-histamine. In still another embodiment the agent is an antibody that recognizes an acetyl-lysine of a protein binding partner of a bromodomain. In a preferred embodiment the agent is an antibody raised against a ZA loop of a bromodomain. These agents can be used as pharmaceuticals in compositions that contain a pharmaceutically acceptable carrier for example, or in the various drug assays of the present invention, serving as controls to demonstrate specificity.

Accordingly, it is a principal object of the present invention to provide the threedimensional coordinates of a bromodomain.

It is a further object of the present invention to provide the three-dimensional coordinates of a bromodomain complexed with acetyl-histamine.

30 It is a further object of the present invention to provide an assay for identifying proteins that contain bromodomains that bind proteins that comprise acetyl-lysine.

It is a further object of the present invention to provide methods of identifying drugs that can modulate the bromodomain-acetyl-lysine binding complex.

It is a further object of the present invention to provide methods of identifying drugs that can inhibit the binding of a bromodomain to a protein containing acetyl-lysine.

It is a further object of the present invention to provide methods that incorporate the use of rational design for identifying such drugs.

10 It is a further object of the present invention to provide a method of identifying drugs that can treat leukemia.

It is a further object of the present invention to provide a method of identifying drugs that can treat and/or prevent AIDS.

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These and other aspects of the present invention will be better appreciated by reference to the following drawings and Detailed Description.

#### BRIEF DESCRIPTION OF THE DRAWINGS

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Figure 1. Structure-based sequence alignment of a selected number of bromodomains. The sequences were aligned based on the NMR-derived structure of the P/CAF bromodomain, and the predicated four α-helices are shown in green boxes. Bromodomains are grouped on the basis of the sequence and/or functional similarities as described by Jeanmougin *et al.*, [Trends in Biochemical *Sciences*, **22:**151-153 (1997)]. Residue numbers of the P/CAF bromodomain are indicated above its sequence. Three absolutely conserved residues, corresponding to Pro751, Pro767, and Asn803 in the P/CAF bromodomain, are shown in red. Highly conserved residues are colored in blue. The residues of the P/CAF bromodomain that interact with acetyl-histamine, as determined by intermolecular NOEs, are indicated by asterisks. The ZA loop, which is critical for acetyl-lysine binding, for each of the indicated bromodomains is also identified. The underlined residues were changed individually

by site-directed mutagenesis to Ala. Genbank accession numbers for the proteins are as indicated in Table 8, in the Example below, along with the SEQ ID NOs. for the bromodomain sequences.

- Figures 2A-2H depict the structure of the P/CAF bromodomain. Figures 2A-2B shows the stereoview of the C<sub>α</sub> trace of 30 superimposed NMR-derived structures of the bromodomain (residues 722-830). The N-terminal four residues (SKEP) which are structurally disordered are omitted for clarity. For the final 30 structures, the root-mean-square deviations (RMSDs) of the backbone and all heavy atoms are 0.63 ± 0.11Å and 1.15 ± 0.12Å for residues 723-830, respectively. The RMSDs of the
- ± 0.11Å and 1.15 ± 0.12Å for residues 723-830, respectively. The RMSDs of the backbone and all heavy atoms for the four α-helices (residues 727-743, 770-776, 785-802, and 807-827), are 0.34 ± 0.04Å and 0.87 ± 0.06Å, respectively. Figures 2C-2D show the stereoview of the bromodomain structures from the bottom of the protein, which is rotated approximately 90° from the orientation in Figures 2A-2B.
- 15 Figure 2E shows the Ribbons [Carson, M., J. Appl. Crystallogr. 24:958-961 (1991)] depiction of the averaged minimized NMR structure of the P/CAF bromodomain. The orientation of Figure 2E is as shown in Figures 2A-2B. Figures 2F-2G are schematic representations of the overall topology of the up-and-down four-helix bundle folds with the opposite handedness. The left-handed fold is seen in
- bromodomain, cytochrome b<sub>5</sub>, and T4 lysozyme (left, Figure 2F), whereas the right-handed four-helix bundles are observed in proteins such as hemerythrin and cytochrome b<sub>562</sub> (right, Figure 2G) [Richardson, J., Adv. Protein Chem., 34:167-339 (1989); Presnell and Cohen, Proc. Natl. Acad. Sci. USA 86:6592-6596 (1989)].
   Figure 2H is a molecular surface representation of the electrostatic potential (blue = positive: red = negative) of the bromodomain calculated in GRASP [Nicholls et al.,
  - positive; red = negative) of the bromodomain calculated in GRASP [Nicholls *et al.*, *Biophys. J.* **64**:166-170 (1993)]. The hydrophobic and aromatic residues (Tyr809, Tyr802, Tyr760, Ala757, and Val752) located between the ZA and BC loops are indicated.
- 30 Figures 3A-3C show the binding of the P/CAF bromodomain to AcK. Figure 3A shows the superimposed region of the 2D <sup>15</sup>N-HSQC spectra of the bromodomain (approximately 0.5 mM) in its free form (red) and complexed to the AcK-containing

H4 peptide (molar ratio 1:6) (black). Figure 3B is the Ribbon and dotted-surface diagram of the bromodomain depicting the location of the lysine-acetylated H4 peptide binding site. The color coding reflects the chemical shift changes ( $\Delta\delta$ ) of the backbone amide <sup>1</sup>H and <sup>15</sup>N resonances upon binding to the AcK peptide as observed in the <sup>15</sup>N-HSQC spectra. The normalized weighted average of the chemical shift changes was calculated by  $\Delta_a/\Delta_{max} = [\Delta \hat{\sigma}_{NH} + \Delta \hat{\sigma}_{N}/25)/2]^{1/2}/\Delta_{max}$ , where  $\Delta_{max}$  is the maximum weighted chemical shift difference observed for Tyr809 (0.16ppm). The backbone atoms are color-coded in red, yellow, or green for residues that have  $\Delta_a/\Delta_{max}$  of >0.6 (Tyr809, Glu808, Asn803, and Ala757), 0.2-0.6 (Ala813, Tyr802, Tyr760, and Val752), or <0.2 (Cys812, Ser807, Cys799, Phe796, and Phe748), respectively. The non-perturbed residues are shown in blue. Figure 3C shows the chemical structures of acetyl-lysine, acetyl-histamine, and acetyl-histidine.

Figure 4 depicts the acetyl-lysine binding pocket. This is the Ribbons [Carson, M., *J. Appl. Crystallogr.* **24**:958-961 (1991)] depiction of a portion of the P/CAF bromodomain complexed with the acetyl-histamine. The ligand is color-coded by atom type.

#### DETAILED DESCRIPTION OF THE INVENTION

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The present invention identifies a general binding partner (ligand) for the protein motif known as the bromodomain. Indeed, by combining structural and site-directed mutagenesis studies the present invention demonstrates that bromodomains can interact specifically with acetyl-lysine (AcK), making them the first protein modules known to exhibit such interactions. Like other modular domains, such as Src homology-2 (SH2) and phosphotyrosine binding (PTB) domains, which specifically interact with phosphotyrosine-containing proteins, the bromodomain/acetyl-lysine recognition provides a means to regulate protein-protein interactions via protein lysine acetylation. The nature of the acetyl-lysine recognition by the bromodomain is similar to that of histone acetyltransferase interaction with acetyl-CoA. The present invention therefore couples for the first time, the functionality of the bromodomain with the HAT activity of coactivators in the regulation of gene transcription.

The present invention further provides both a nuclear magnetic resonance (NMR) structure of the bromodomain from the HAT coactivator P/CAF (p300/CBP-associated factor) as well as the structure for the P/CAF bromodomain in complex with acetyl-histamine. The structure reveals an unusual left-handed up-and-down four-helix bundle.

The results disclosed herein explain prior deletion experiments which showed that the bromodomain is indispensable for the function of GCN5 in yeast.

Bromodomain-AcK binding also appears to be important for the assembly and activity of multiprotein complexes in transcriptional activation. The results reported herein therefore, form the foundation for identifying specific biological ligands and for defining the molecular mechanisms by which the extensive family of bromodomains participate in chromatin remodeling and transcriptional activation

As disclosed herein, the binding partner for the bromodomain is a peptide or protein comprising an acetyl-lysine (AcK). Interestingly, whereas a free acetyl-lysine does not appear to bind the bromodomain, an analog of the acetyl-lysine, acetyl-histamine, does. This is most likely due to the additional charge present in the free amino acid. Consistently, free acetyl-histidine also does not to bind the bromodomain.

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The present invention further provides a key region of the bromodomain for the interaction with its acetyl-lysine binding partner, the ZA loop. The amino acid sequence of the ZA loop is defined in Figure 1 for a number of bromodomains and is depicted in Figure 2A for P/CAF. In a particular embodiment, the ZA loop has between about 21 and 40 amino acid residues comprising the amino acid sequence of:

$$F X_{2-3} P X_{5-8} J_{P/K/H} X Y J_{Y/F/H} X_5 P J_{M/I/V} D$$
 (SEQ ID NO:3)

more preferably the ZA loop has about 23 to 34 amino acid residues and comprises the amino acid sequence:

$$X_2 F X_{2-3} P X_{5-8} J_{P/K/H} X Y J_{Y/F/H} X_5 P J_{M/I/V} D$$
 (SEQ ID NO:43)

- (1) The single letter amino acid code is used in this description, *i.e.*, "F" for phenylalanine; "P" for proline; "Y" for tyrosine; and "D" for aspartic acid.
- (2) "X" indicates any amino acid (an undesignated amino acid); and X,  $X_2$ ,  $X_{2-3}$ ,  $X_5$ , and  $X_{5-8}$  indicates one undesignated amino acid, two consecutive undesignated amino acids, two or three consecutive undesignated amino acids, five consecutive undesignated amino acids, and five to eight consecutive undesignated amino acids respectively.
- (3) "J" indicates that identity of the amino acid is restricted to a particular group, again the one letter code is used
- 10 : (i)  $J_{P/K/H}$  is either proline, lysine or histidine.
  - (ii)  $J_{Y/F/H}$  is either tyrosine, phenylalanine or histidine.
  - (iii)  $J_{M/I/V}$  is either methionine, isoleucine, or valine.

Since this region of the bromodomain is important in binding its acetyl-lysine binding partner, antibodies specifically raised against this region are also included in the present invention. In a particular embodiment, the antibody is a humanized chimeric antibody that can be used in therapeutic treatment. Thus monoclonal, chimeric, and polyclonal antibodies raised against bromodomains, preferably against amino acid residues in the ZA loop region are part of the present invention. In a specific embodiment the antibody is raised against a peptide, fusion peptide or conjugated peptide consisting of amino acid residues 746 to 765 of SEQ ID NO:2, *i.e.*, WPFMEPVKRTEAPGYYEVIR (SEQ ID NO:44). Such antibodies can be used in the treatment of leukemia for example. Alternatively, these antibodies can be used in drug discovery assays.

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Thus the present invention provides the first detailed structural information regarding a bromodomain and a bromodomain complexed with its acetylated binding partner. The present invention therefore provides the three-dimensional structure of the bromodomain and a bromodomain acetylated binding partner complex. Since the interaction of the bromodomain with a histone for example, can play a significant role in chromatin remodeling/regulation, the structural information provided herein can be employed in methods of identifying drugs that can modulate basic cell processes by modulating the transcription. In a particular embodiment, the three-dimensional

structural information is used in the design of a small organic molecule for the treatment of cancer.

Indeed, the bromodomain and lysine-acetylated protein interaction can now be implicated to play a causal role in the development of a number of diseases including cancers such as leukemia. For example, chromatin remodeling plays a central role in the etiology of viral infection and cancer [Archer and Hodin, Curr. Opin. Genet. Biol. 9:171-174 (1999); Jacobson and Pillus, Curr. Opin. Genet. Biol. 9:175-184 (1999)]. Both altered histone acetylation/deacetylation and aberrant forms of chromatin-10 remodeling complexes are associated with human diseases. Furthermore, chromosomal translocation of various cellular genes with those encoding HATs and subunits of chromatin remodeling complexes have been implicated in leukomogenesis. The MOZ (monocytic leukemia zinc finger) and MLL/ALL-1 genes are frequently fused to the gene encoding the co-activator HAT CBP [Sobulo et al., Proc. Natl. Acad. Sci. USA 94:8732-8737(1997)]. The resulting fusion protein MLL-CBP contains the tandem bromodomain-PHD finger-HAT domain of CBP. It also has been shown that both the bromodomain and HAT domain of CBP are required for leukomogenesis, because deletion of either the bromodomain or the HAT domain results in loss of the MLL-CBP fusion protein's ability for cell transform. These results indicate that the 20 CBP bromodomain, and more particularly, the ZA loop of the CBP bromodomain, is an excellent target for developing drugs that interfere with the bromodomain acetyllysine interaction that can be used in the treatment of human acute leukemia. In addition, an antibody (e.g., a humanized antibody) raised specifically against a peptide from the ZA loop of the CBP bromodomain could also be effective for treating these conditions. 25

Furthermore, the human immunodeficiency virus type 1 (HIV-1) *trans*-activator protein, Tat, is absolutely required for productive HIV viral replication [Jeang and Gatignol, *Curr. Top. Microbiol. Immunol.*, **188**:123-144(1994)]. Recently, it has been shown that HIV-1 Tat transcriptional activity is tightly regulated by lysine acetylation [Kiernan *et al.*, *EMBO Journal* **18**:6106-6118 (1999)]. Therefore, the interaction of the acetyl-lysine of Tat with one or more bromodomain-containing proteins associated

with chromatin remodeling could mediate gene transcription. Thus, the bromodomain/lysine-acetylated Tat interaction could also serve as a drug target for blocking HIV replication in cells. Similarly, an antibody raised specifically against a peptide from the ZA loop of the bromodomain could also be effective for treating these conditions.

In addition, based on the new structural information disclosed herein, the key amino acid residues for the binding of a given bromodomain and its binding partner can be identified and further elucidated using basic mutagenesis and standard isothermal titration calorimetry, for example. In this case, both the crucial amino acids for the bromodomain and the binding partner (i.e., apart from the acetyl-lysine) can be readily determined and are also part of the present invention.

The results obtained from the structural and functional studies disclosed herein provide the foundation for both high throughput drug screening and structure-based rational drug design. The agents identified by this procedure will be useful for ameliorating conditions involving chromatin remodeling/regulation as indicated above.

Structure based rational drug design is the most efficient method of drug development.

However, heretofore, no information has been disclosed regarding the structure of the bromodomain or more importantly, its interaction with the acetyl-lysine of its binding partner. Obtaining detailed structural information requires an extensive NMR or X-ray crystallographic analysis. By determining and then exploiting the detailed structural information of the bromodomain and of the bromodomain/acetyl-histamine

(exemplified by NMR analysis below) the present invention provides novel methods for developing new drugs through structure based rational drug design.

Thus the present invention provides representative sets of the atomic structure coordinates of the free form of the P/CAF bromodomain (Table 5) and of the P/CAF bromodomain-acetyl-histamine complex (Table 6) which were both obtained by NMR analysis. A Ribbon diagram of the three-dimensional structure of the P/CAF bromodomain is depicted in Figure 2E, whereas the P/CAF bromodomain acetyl-lysine

binding pocket is depicted in Figure 4. The present invention also provides the NOE-derived distance restraints, and NMR chemical shift assignments of the P/CAF bromodomain. The NMR chemical shift assignments of the P/CAF bromodomain are included in the chemical shift table (Table 1) for the <sup>1</sup>H-<sup>15</sup>N HSQC spectrum of P/CAF bromodomain. The unambiguous NOE-derived Inter-proton Distance Restraints (Table 2), the ambiguous NOE-derived Inter-proton Distance Restraints (Table 3) and the <sup>1</sup>H bonding restraints (Table 4) are also disclosed herein. The sample atomic coordinate data provided enable the skilled artisan to practice the invention. In addition, Tables 1-6 are also capable of being placed into a computer readable form which is also part of the present invention. Furthermore, methods of using these coordinates and chemical shifts and related information (including in computer readable forms) either individually or together in drug assays are also provided. More particularly, such atomic coordinates can be used to identify potential ligands or drugs which will modulate the binding of a bromodomain with its binding partner.

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Therefore, if appearing herein, the following terms shall have the definitions set out below.

As used herein a "bromodomain-acetyl-lysine binding complex" is a binding complex between a bromodomain or fragment thereof and either a peptide/polypeptide comprising an acetyl-lysine (or an analog of acetyl-lysine), or a free analog of acetyl-lysine, such as acetyl-histamine disclosed in the Example below. Preferably, the peptide comprises at least six amino acids in addition to the acetyl-lysine. The dissociation constant of a bromodomain-acetyl-lysine binding complex is dependent on whether the lysine residue or analog thereof is acetylated or not, such that the affinity for the bromodomain and the peptide comprising the lysine residue (for example) significantly decreases when that lysine residue is not acetylated.

As used herein a "ZA loop" of a bromodomain is one protion of a bromodomain that is involved in the binding of the bromodomain to the acetyl-lysine. The structure of the ZA loop of the bromodomain of for P/CAF is depicted in Figure 2A. The ZA loop has between about 20 and 40 amino acids and comprises the amino acid sequence of SEQ ID NO:3. More preferably the ZA loop comprises between about 23 to 34 amino acids

and has the amino acid sequence SEQ ID NO:43. The amino acid sequence of the ZA loop for a representative number of individual bromodomains is shown in Figure 1.

A "polypeptide" or "peptide" comprising a fragment of a bromodomain, such as the ZA loop, or a peptide or polypeptide comprising an acetyl-lysine, as used herein can be the "fragment" alone, or a larger chimeric or fusion peptide/protein which contains the "fragment".

As used herein the terms "fusion protein" and "fusion peptide" are used interchangeably and encompass "chimeric proteins and/or chimeric peptides" and fusion "intein proteins/peptides". A fusion protein comprises at least a portion of a protein or peptide of the present invention, *e.g.*, a bromodomain, joined *via* a peptide bond to at least a portion of another protein or peptide including *e.g.*, a second bromodomain in a chimeric fusion protein. In a particular embodiment the portion of the bromodomain is antigenic. Fusion proteins can comprise a marker protein or peptide, or a protein or peptide that aids in the isolation and/or purification of the protein, for example.

As used herein, and unless otherwise specified, the terms "agent", "potential drug", "compound", "test compound" or "potential compound" are used interchangeably, and refer to chemicals which potentially have a use as an inhibitor or activator/stabilizer of bromodomain-acetyl-lysine binding. Therefore, such "agents", "potential drugs", "compounds" and "potential compounds" may be used, as described herein, in drug assays and drug screens and the like.

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As used herein a "small organic molecule" is an organic compound, including a peptide [or organic compound complexed with an inorganic compound (e.g., metal)] that has a molecular weight of less than 3 Kilodaltons. Such small organic molecules can be included as agents, etc. as defined above.

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As used herein the term "binds to" is meant to include all such specific interactions that result in two or more molecules showing a preference for one another relative to some third molecule. This includes processes such as covalent, ionic, hydrophobic and

hydrogen bonding but does not include non-specific associations such as solvent preferences.

As used herein the term "about" signifies that a value is within twenty percent of the indicated value *i.e.*, a peptide containing "about" 20 amino acid residues can contain between 16 and 24 amino acid residues.

General Techniques for Constructing Nucleic Acids That Encode the Bromodomains and Fragments Thereof (Incuding, ZA Loops); and the Bromodomain Binding Partners of the Present Invention.

In accordance with the present invention there may be employed conventional molecular biology, microbiology, and recombinant DNA techniques within the skill of the art. Such techniques are explained fully in the literature. See, *e.g.*, Sambrook,

- 15 Fritsch & Maniatis, Molecular Cloning: A Laboratory Manual, Second Edition (1989)
  Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York (herein
  "Sambrook et al., 1989"); DNA Cloning: A Practical Approach, Volumes I and II
  (D.N. Glover ed. 1985); Oligonucleotide Synthesis (M.J. Gait ed. 1984); Nucleic Acid
  Hybridization [B.D. Hames & S.J. Higgins eds. (1985)]; Transcription And
- 20 Translation [B.D. Hames & S.J. Higgins, eds. (1984)]; Animal Cell Culture [R.I. Freshney, ed. (1986)]; Immobilized Cells And Enzymes [IRL Press, (1986)]; B. Perbal, A Practical Guide To Molecular Cloning (1984); F.M. Ausubel et al. (eds.), Current Protocols in Molecular Biology, John Wiley & Sons, Inc. (1994).
- 25 Therefore, if appearing herein, the following terms shall have the definitions set out below.

As used herein, the term "gene" refers to an assembly of nucleotides that encode a polypeptide, and includes cDNA and genomic DNA nucleic acids.

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A "vector" is a replicon, such as plasmid, phage or cosmid, to which another DNA segment may be attached so as to bring about the replication of the attached segment. A "replicon" is any genetic element (e.g., plasmid, chromosome, virus) that functions

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as an autonomous unit of DNA replication in vivo, i.e., capable of replication under its own control.

A "cassette" refers to a segment of DNA that can be inserted into a vector at specific restriction sites. The segment of DNA encodes a polypeptide of interest, and the cassette and restriction sites are designed to ensure insertion of the cassette in the proper reading frame for transcription and translation.

A cell has been "transfected" by exogenous or heterologous DNA when such DNA has been introduced inside the cell.

A "nucleic acid molecule" refers to the phosphate ester polymeric form of ribonucleosides (adenosine, guanosine, uridine or cytidine; "RNA molecules") or deoxyribonucleosides (deoxyadenosine, deoxyguanosine, deoxythymidine, or deoxycytidine; "DNA molecules"), or any phosphoester analogues thereof, such as phosphorothioates and thioesters, in either single stranded form, or a double-stranded helix. Double stranded DNA-DNA, DNA-RNA and RNA-RNA helices are possible. The term nucleic acid molecule, and in particular DNA or RNA molecule, refers only to the primary and secondary structure of the molecule, and does not limit it to any particular tertiary forms. Thus, this term includes double-stranded DNA found, inter alia, in linear or circular DNA molecules (e.g., restriction fragments), plasmids, and chromosomes. In discussing the structure of particular double-stranded DNA molecules, sequences may be described herein according to the normal convention of giving only the sequence in the 5' to 3' direction along the nontranscribed strand of DNA (i.e., the strand having a sequence homologous to the mRNA). A "recombinant DNA molecule" is a DNA molecule that has undergone a molecular biological manipulation.

A nucleic acid molecule is "hybridizable" to another nucleic acid molecule, such as a cDNA, genomic DNA, or RNA, when a single stranded form of the nucleic acid molecule can anneal to the other nucleic acid molecule under the appropriate conditions of temperature and solution ionic strength (see Sambrook et al., supra). The conditions of temperature and ionic strength determine the "stringency" of the

hybridization. For preliminary screening for homologous nucleic acids, low stringency hybridization conditions, corresponding to a  $T_m$  of 55°, can be used, e.g., 5x SSC, 0.1% SDS, 0.25% milk, and no formamide; or 30% formamide, 5x SSC, 0.5% SDS). Moderate stringency hybridization conditions correspond to a higher T<sub>m</sub>, e.g., 40% formamide, with 5x or 6x SCC. High stringency hybridization conditions correspond to the highest T<sub>m</sub>, e.g., 50% formamide, 5x or 6x SCC. Hybridization requires that the two nucleic acids contain complementary sequences, although depending on the stringency of the hybridization, mismatches between bases are possible. The appropriate stringency for hybridizing nucleic acids depends on the length of the nucleic acids and the degree of complementation, variables well known in the art. The 10 greater the degree of similarity or homology between two nucleotide sequences, the greater the value of T<sub>m</sub> for hybrids of nucleic acids having those sequences. The relative stability (corresponding to higher T<sub>m</sub>) of nucleic acid hybridizations decreases in the following order: RNA:RNA, DNA:RNA, DNA:DNA. For hybrids of greater than 100 nucleotides in length, equations for calculating T<sub>m</sub> have been derived (see 15 Sambrook et al., supra, 9.50-10.51). For hybridization with shorter nucleic acids, i.e., oligonucleotides, the position of mismatches becomes more important, and the length of the oligonucleotide determines its specificity (see Sambrook et al., supra, 11.7-11.8). Preferably a minimum length for a hybridizable nucleic acid is at least about 12 nucleotides; preferably at least about 18 nucleotides; and more preferably the length is 20

In a specific embodiment, the term "standard hybridization conditions" refers to a  $T_m$  of 55°C, and utilizes conditions as set forth above. In a preferred embodiment, the  $T_m$  is 60°C; in a more preferred embodiment, the  $T_m$  is 65°C.

at least about 27 nucleotides; and most preferably 36 nucleotides.

A DNA "coding sequence" is a double-stranded DNA sequence which is transcribed and translated into a polypeptide in a cell *in vitro* or *in vivo* when placed under the control of appropriate regulatory sequences. The boundaries of the coding sequence are determined by a start codon at the 5' (amino) terminus and a translation stop codon at the 3' (carboxyl) terminus. A coding sequence can include, but is not limited to, prokaryotic sequences and synthetic DNA sequences. If the coding sequence is

intended for expression in a eukaryotic cell, a polyadenylation signal and transcription termination sequence will usually be located 3' to the coding sequence.

Transcriptional and translational control sequences are DNA regulatory sequences, such as promoters, enhancers, terminators, and the like, that provide for the expression of a coding sequence in a host cell. In eukaryotic cells, polyadenylation signals are control sequences.

A "promoter sequence" is a DNA regulatory region capable of binding RNA polymerase in a cell and initiating transcription of a downstream (3' direction) coding sequence. For purposes of defining the present invention, the promoter sequence is bounded at its 3' terminus by the transcription initiation site and extends upstream (5' direction) to include the minimum number of bases or elements necessary to initiate transcription at levels detectable above background. Within the promoter sequence will be found a transcription initiation site (conveniently defined for example, by mapping with nuclease S1), as well as protein binding domains (consensus sequences) responsible for the binding of RNA polymerase.

A coding sequence is "under the control" of transcriptional and translational control sequences in a cell when RNA polymerase transcribes the coding sequence into mRNA, which is then trans-RNA spliced and translated into the protein encoded by the coding sequence.

A DNA sequence is "operatively linked" to an expression control sequence when the
expression control sequence controls and regulates the transcription and translation of
that DNA sequence. The term "operatively linked" includes having an appropriate
start signal (e.g., ATG) in front of the DNA sequence to be expressed and maintaining
the correct reading frame to permit expression of the DNA sequence under the control
of the expression control sequence and production of the desired product encoded by
the DNA sequence. If a gene that one desires to insert into a recombinant DNA
molecule does not contain an appropriate start signal, such a start signal can be inserted
in front of the gene.

As used herein, the term "homologous" in all its grammatical forms refers to the relationship between proteins that possess a "common evolutionary origin," including proteins from superfamilies (e.g., the immunoglobulin superfamily) and homologous proteins from different species (e.g., myosin light chain, etc.) [Reeck et al., Cell, 50:667 (1987)]. Such proteins have sequence homology as reflected by their high degree of sequence similarity.

Accordingly, the term "sequence similarity" in all its grammatical forms refers to the degree of identity or correspondence between nucleic acid or amino acid sequences of proteins that may or may not share a common evolutionary origin (see Reeck et al., supra). However, in common usage and in the instant application, the term "homologous," when modified with an adverb such as "highly," may refer to sequence similarity and not a common evolutionary origin.

15 Two DNA sequences are "substantially homologous" when at least about 60% (preferably at least about 80%, and most preferably at least about 90 or 95%) of the nucleotides match over the defined length of the DNA sequences. Sequences that are substantially homologous can be identified by comparing the sequences using standard software available in sequence data banks, or in a Southern hybridization experiment under, for example, stringent conditions as defined for that particular system. Defining appropriate hybridization conditions is within the skill of the art. See, e.g., Maniatis et al., supra; DNA Cloning, Vols. I & II, supra; Nucleic Acid Hybridization, supra.

As used herein an amino acid sequence is 100% "homologous" to a second amino acid sequence if the two amino acid sequences are identical, and/or differ only by neutral or conservative substitutions as defined below. Accordingly, an amino acid sequence is 50% "homologous" to a second amino acid sequence if 50% of the two amino acid sequences are identical, and/or differ only by neutral or conservative substitutions.

30 As used herein, DNA and protein sequence percent identity can be determined using MacVector 6.0.1, Oxford Molecular Group PLC (1996) and the Clustal W algorithm with the alignment default parameters, and default parameters for identity. These

commercially available programs can also be used to determine sequence similarity using the same or analogous default parameters.

The term "corresponding to" is used herein to refer similar or homologous sequences, whether the exact position is identical or different from the molecule to which the similarity or homology is measured. Thus, the term "corresponding to" refers to the sequence similarity, and not the numbering of the amino acid residues or nucleotide bases.

As used herein a "heterologous nucleotide sequence" is a nucleotide sequence that is added to a nucleotide sequence of the present invention by recombinant methods to form a nucleic acid which is not naturally formed in nature. Such nucleic acids can encode fusion proteins or peptides, including chimeric proteins and peptides. Thus the heterologous nucleotide sequence can encode peptides and/or proteins which contain regulatory and/or structural properties. In another such embodiment the heterologous nucleotide can encode a protein or peptide that functions as a means of detecting the protein or peptide encoded by the nucleotide sequence of the present invention after the recombinant nucleic acid is expressed. In still another such embodiment the heterologous nucleotide can function as a means of detecting a nucleotide sequence of the present invention. A heterologous nucleotide sequence can comprise non-coding sequences including restriction sites, regulatory sites, promoters and the like.

The present invention also relates to cloning vectors containing nucleic acids encoding analogs and derivatives of the bromodomains of the present invention and polypeptides/peptides that can bind a bromodomain when a lysine of the polypeptide/peptide is acetylated, including modified fragments, that have the same or homologous functional activity as the individual fragments, and homologs thereof. The production and use of derivatives and analogs related to the fragments are within the scope of the present invention.

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Due to the degeneracy of nucleotide coding sequences, other DNA sequences which encode substantially the same amino acid sequence as a nucleic acid encoding a protein

comprising bromodomain or bromodomain binding partner (i.e., when posttranscriptionally acetylated) of the present invention for example, may be used in the practice of the present invention. These include but are not limited to allelic genes, homologous genes from other species, which are altered by the substitution of different codons that encode the same amino acid residue within the sequence, thus producing a silent change. Likewise, the peptides and polypeptides of the present invention include, but are not limited to, those containing, as a primary amino acid sequence, analogous portions of their respective amino acid sequences including altered sequences in which functionally equivalent amino acid residues are substituted for residues within the sequence resulting in a conservative amino acid substitution. For 10 example, one or more amino acid residues within the sequence can be substituted by another amino acid of a similar polarity, which acts as a functional equivalent, resulting in a silent alteration. Substitutes for an amino acid within the sequence may be selected from other members of the class to which the amino acid belongs. For example, the nonpolar (hydrophobic) amino acids include alanine, leucine, isoleucine, valine, proline, phenylalanine, tryptophan and methionine. Amino acids containing aromatic ring structures are phenylalanine, tryptophan, and tyrosine. The polar neutral amino acids include glycine, serine, threonine, cysteine, tyrosine, asparagine, and glutamine. The positively charged (basic) amino acids include arginine, and lysine. The negatively charged (acidic) amino acids include aspartic acid and glutamic acid.

Particularly preferred conserved amino acid exchanges are:

- (a) Lys for Arg or vice versa such that a positive charge may be maintained;
- (b) Glu for Asp or vice versa such that a negative charge may be maintained;
- (c) Ser for Thr or vice versa such that a free -OH can be maintained;
  - (d) Gln for Asn or vice versa such that a free NH, can be maintained;
  - (e) Ile for Leu or for Val or vice versa as roughly equivalent hydrophobic amino acids; and
  - (f) Phe for Tyr or vice versa as roughly equivalent aromatic amino acids.

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A conservative change generally leads to less change in the structure and function of the resulting protein. A non-conservative change is more likely to alter the structure,

activity or function of the resulting protein. The present invention should be considered to include sequences containing conservative changes which do not significantly alter the activity or binding characteristics of the resulting protein.

Specific amino acid residues for the P/CAF bromodomain have been identified that are important for binding, indicating a potential lower stringency for the substitution of the remaining amino acids residues.

All of the peptides/fragments of the present invention can be modified by being placed in a fusion or chimeric peptide or protein, or labeled *e.g.*, to have an N-terminal FLAG-tag, or H6 tag. In a particular embodiment the P/CAF bromodomain fragment can be modified to contain a marker protein such as green fluorescent protein as described in U.S. Patent No. 5,625,048 filed April 29, 1997 and WO 97/26333, published July 24, 1997 each of which are hereby incorporated by reference herein in their entireties.

The nucleic acids encoding peptides and protein fragments of the present invention and 15 analogs thereof can be produced by various methods known in the art. The manipulations which result in their production can occur at the gene or protein level [Sambrook et al., 1989, supra]. The nucleotide sequence can be cleaved at appropriate sites with restriction endonuclease(s), followed by further enzymatic modification if desired, isolated, and ligated in vitro. In addition a nucleic acid sequence can be mutated in vitro or in vivo, to create and/or destroy translation, initiation, and/or termination sequences, or to create variations in coding regions and/or form new restriction endonuclease sites or destroy preexisting ones, to facilitate further in vitro modification. Any technique for mutagenesis known in the art can be used, including but not limited to, in vitro site-directed mutagenesis [Hutchinson et al., J. Biol. Chem., 253:6551 (1978); Zoller and Smith, DNA, 3:479-488 (1984); Oliphant et al., Gene, 44:177 (1986); Hutchinson et al., Proc. Natl. Acad. Sci. U.S.A., 83:710 (1986)], use of TAB® linkers (Pharmacia), etc. PCR techniques are preferred for site directed mutagenesis [see Higuchi, 1989, "Using PCR to Engineer DNA", in PCR Technology: Principles and Applications for DNA Amplification, H. Erlich, ed., Stockton Press, Chapter 6, pp. 61-70].

The identified and isolated nucleic acids can then be inserted into an appropriate cloning vector. A large number of vector-host systems known in the art may be used.

## Protein expression and purification

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A bacterial protein expression system can be used to make various stable isotopically labeled (<sup>13</sup>C, <sup>15</sup>N, and <sup>2</sup>H) protein samples that are useful for a three-dimensional NMR structural determination of a protein complex. For example a pET14b (Novagen) bacterial expression vector can be constructed which expresses the recombinant P/CAF bromodomain as an amino-terminal His-tagged fusion protein.

Protein expression and purification can be conducted using standard procedures for His-tagged proteins [Zhou et al., J. Biol. Chem. 270:31119-31123 (1995)]. To optimize the level of protein expression, various bacterial growth and expression conditions can be screened, which include different E. Coli cell lines, and growth and protein induction temperatures. Generally, it is preferred to obtain the maximum amount of soluble protein while still inducing protein expression with a relatively low IPTG concentration e.g., ~0.2mM (final concentration) at 16°C. As exemplified below, the bromodomain of P/CAF (residues 719-832 of SEQ ID NO:2 which is SEQ ID NO:7) was subcloned into the pET14b expression vector (Novagen) and expressed in Escherichia coli BL21(DE3) cells. Uniformly <sup>15</sup>N- and <sup>15</sup>N/<sup>13</sup>C-labeled proteins were prepared by growing bacteria in a minimal medium containing <sup>15</sup>NH<sub>4</sub>Cl with or without 13C6-glucose. A uniformly 15N/13C-labeled and fractionally deuterated protein sample was prepared by growing the cells in 75%  $^{2}H_{2}O$ . The bromodomain was purified by affinity chromatography on a nickel-IDA column (Invitrogen) followed by the removal of poly-His tag by thrombin cleavage. The final purification of the protein was achieved by size-exclusion chromatography. The acetyl-lysine-containing peptides were prepared on a MilliGen 9050 peptide synthesizer (Perkin Elmer) using Fmoc/HBTU chemistry. Acetyl-lysine was incorporated using the reagent Fmoc-Ac-Lys with HBTU/DIPEA activation. NMR samples contained approximately 1 mM protein in 100mM phosphate buffer of pH 6.5 and 5mM perdeuterated DTT and 0.5mM EDTA in  $H_2O/^2H_2O$  (9/1) or  $^2H_2O$ .

One major advantage of using the heteronuclear multidimensional approach, as exemplied herein, is that the NMR resonance assignments of a protein are obtained in a sequence-specific manner which assures accuracy and greatly facilitates data analysis and structure determination [Clore, G. M. & Gronenborn, A. M. *Meth. Enzymol*.

239:249-363 (1994)]. In addition, the signal overlapping problems in the protein spectra are minimized by the use of multidimensional NMR spectra, which separates the proton signals according to the chemical shifts of their attached hetero-nuclei (such as <sup>15</sup>N and <sup>13</sup>C). This NMR approach has been proven very powerful for structural analysis of large proteins [Clore, G. M. & Gronenborn, A. M. *Meth. Enzymol.* 

239:249-363 (1994)]. To facilitate sequence-specific resonance assignments for the structural study, a uniformly <sup>13</sup>C, <sup>15</sup>N-labeled and fractionally (75%) deuterated protein sample of the bromodomain can be prepared by growing bacterial cells in 75% <sup>2</sup>H<sub>2</sub>O as exemplified below. Such protein samples can be used for triple-resonance NMR experiments. A triple-labeled protein sample is useful for high-resolution NMR structural studies. Because of the favorable <sup>1</sup>H, <sup>13</sup>C, and <sup>15</sup>N relaxation rates caused by the partial deuteration of the protein, constant-time triple-resonance NMR spectra can

be acquired with higher digital resolution and sensitivity [Sattler, M. & Fesik, S. W. *Structure* **4**:1245-1249 (1996)]. In addition, various stable-isotopically labeled (<sup>15</sup>N and <sup>13</sup>C /<sup>15</sup>N) proteins can also be prepared using this procedure.

Synthetic Polypeptides

The term "polypeptide" is used in its broadest sense to refer to a compound of two or more subunit amino acids, amino acid analogs, or peptidomimetics. The subunits are linked by peptide bonds. The terms "polypeptide", "protein", and "peptide" are used interchangeably herein, though preferably as used herein a "peptide" refers to a compound of at least two but less than fifty subunit amino acids, and a polypeptide or protein refers to compound of fifty or more amino acids. The polypeptides of the present invention may be chemically synthesized or as detailed above, genetically

engineered or isolated from natural sources.

In addition, potential drugs or agents that may be tested in the drug screening assays of the present invention may also be chemically synthesized. When the peptide is to be

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modified, e.g., acetylated, the modification can be at any time during the peptide synthesis, including using an acetyl-lysine as a starting material or acetylating a lysine residue of a peptide after the peptide has been synthesized. In the Example below, the acetyl-lysine-containing peptides were prepared on a MilliGen 9050 peptide synthesizer (Perkin Elmer) using Fmoc/HBTU chemistry. Acetyl-lysine was incorporated using the reagent Fmoc-Ac-Lys with HBTU/DIPEA activation.

Thus, synthetic polypeptides, prepared using the well known techniques of solid phase, liquid phase, or peptide condensation techniques, or any combination thereof, can include natural and unnatural amino acids. Amino acids used for peptide synthesis may be standard Boc ( $N^{\alpha}$ -amino protected  $N^{\alpha}$ -t-butyloxycarbonyl) amino acid resin with the standard deprotecting, neutralization, coupling and wash protocols of the original solid phase procedure of Merrifield [J. Am. Chem. Soc., 85:2149-2154 (1963)], or the base-labile N<sup>α</sup>-amino protected 9-fluorenylmethoxycarbonyl (Fmoc) amino acids first described by Carpino and Han [J. Org. Chem., 37:3403-3409 (1972)]. Both Fmoc and Boc N<sup>α</sup>-amino protected amino acids can be obtained from Fluka, Bachem, Advanced Chemtech, Sigma, Cambridge Research Biochemical, Bachem, or Peninsula Labs or other chemical companies familiar to those who practice this art. In addition, the method of the invention can be used with other N°-protecting groups that are familiar to those skilled in this art. Solid phase peptide synthesis may be accomplished by techniques familiar to those in the art and provided, for example, in Stewart and Young [Solid Phase Synthesis, Second Edition, Pierce Chemical Co., Rockford, IL (1984)] and Fields and Noble [Int. J. Pept. Protein Res., 35:161-214 (1990)], or using automated synthesizers, such as sold by ABS. Thus, polypeptides of the invention may comprise D-amino acids, a combination of D- and L-amino acids, and various "designer" amino acids (e.g., β-methyl amino acids, Cα-methyl amino acids, and Nα-methyl amino acids, etc.) to convey special properties. Synthetic amino acids include ornithine for lysine, fluorophenylalanine for phenylalanine, and norleucine for leucine or isoleucine. Additionally, by assigning specific amino acids at specific coupling steps,  $\alpha$ -helices,  $\beta$  turns,  $\beta$  sheets,  $\gamma$ -turns, and cyclic peptides can be generated.

In a further embodiment, subunits of peptides that confer useful chemical and structural properties will be chosen. For example, peptides comprising D-amino acids will be resistant to L-amino acid-specific proteases in vivo. In addition, the present invention envisions preparing peptides that have more well defined structural properties, and the use of peptidomimetics, and peptidomimetic bonds, such as ester bonds, to prepare peptides with novel properties. In another embodiment, a peptide may be generated that incorporates a reduced peptide bond, i.e., R<sub>1</sub>-CH<sub>2</sub>-NH-R<sub>2</sub>, where R<sub>1</sub> and R<sub>2</sub> are amino acid residues or sequences. A reduced peptide bond may be introduced as a dipeptide subunit. Such a molecule would be resistant to peptide bond hydrolysis, e.g., protease activity. Such peptides would provide ligands with unique 10 function and activity, such as extended half-lives in vivo due to resistance to metabolic breakdown, or protease activity. Furthermore, it is well known that in certain systems constrained peptides show enhanced functional activity [Hruby, Life Sciences, 31:189-199 (1982); Hruby et al., Biochem J., 268:249-262 (1990)]; the present invention provides a method to produce a constrained peptide that incorporates random 15 sequences at all other positions.

Constrained and cyclic peptides. A constrained, cyclic or rigidized peptide may be prepared synthetically, provided that in at least two positions in the sequence of the peptide an amino acid or amino acid analog is inserted that provides a chemical functional group capable of crosslinking to constrain, cyclise or rigidize the peptide after treatment to form the crosslink. Cyclization will be favored when a turn-inducing amino acid is incorporated. Examples of amino acids capable of crosslinking a peptide are cysteine to form disulfides, aspartic acid to form a lactone or a lactam, and a chelator such as γ-carboxyl-glutamic acid (Gla) (Bachem) to chelate a transition metal and form a cross-link. Protected γ-carboxyl glutamic acid may be prepared by modifying the synthesis described by Zee-Cheng and Olson [Biophys. Biochem. Res. Commun., 94:1128-1132 (1980)]. A peptide in which the peptide sequence comprises at least two amino acids capable of crosslinking may be treated, e.g., by oxidation of cysteine residues to form a disulfide or addition of a metal ion to form a chelate, so as to crosslink the peptide and form a constrained, cyclic or rigidized peptide.

The present invention provides strategies to systematically prepare cross-links. For example, if four cysteine residues are incorporated in the peptide sequence, different protecting groups may be used (Hiskey, in The Peptides: Analysis, Synthesis, Biology, Vol. 3, Gross and Meienhofer, eds., Academic Press: New York, pp. 137-167 (1981);

Ponsanti et al., Tetrahedron, 46:8255-8266 (1990)]. The first pair of cysteines may be deprotected and oxidized, then the second set may be deprotected and oxidized. In this way a defined set of disulfide cross-links may be formed. Alternatively, a pair of cysteines and a pair of chelating amino acid analogs may be incorporated so that the

cross-links are of a different chemical nature.

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Non-classical amino acids that induce conformational constraints. The following non-classical amino acids may be incorporated in the peptide in order to introduce particular conformational motifs: 1,2,3,4-tetrahydroisoquinoline-3-carboxylate [Kazmierski et al., J. Am. Chem. Soc., 113:2275-2283 (1991)]; (2S,3S)-methyl-phenylalanine, (2S,3R)-methyl-phenylalanine, (2R,3S)-methyl-phenylalanine and (2R,3R)-methyl-phenylalanine (Kazmierski and Hruby, Tetrahedron Lett. (1991)]; 2-aminotetrahydronaphthalene-2-carboxylic acid [Landis, Ph.D. Thesis, University of Arizona (1989)]; hydroxy-1,2,3,4-tetrahydroisoquinoline-3-carboxylate [Miyake et al., J. Takeda Res. Labs., 43:53-76 (1989)]; β-carboline (D and L) [Kazmierski, Ph.D. Thesis, University of Arizona (1988)]; HIC (histidine isoquinoline carboxylic acid) [Zechel et al., Int. J. Pep. Protein Res., 43 (1991)]; and HIC (histidine cyclic urea) (Dharanipragada).

The following amino acid analogs and peptidomimetics may be incorporated into a peptide to induce or favor specific secondary structures: LL-Acp (LL-3-amino-2-propenidone-6-carboxylic acid), a β-turn inducing dipeptide analog [Kemp et al., J. Org. Chem., 50:5834-5838 (1985)]; β-sheet inducing analogs [Kemp et al., Tetrahedron Lett., 29:5081-5082 (1988); β-turn inducing analogs [Kemp et al., Tetrahedron Lett., 29:5057-5060 (1988)]; α-helix inducing analogs (Kemp et al., J. Org. Chem., 54:109:115 (1989)]; and analogs provided by the following references: Nagai and Sato, Tetrahedron Lett., 26:647-650 (1985); DiMaio et al., J. Chem. Soc. Perkin Trans., p. 1687 (1989); also a Gly-Ala turn analog [Kahn et al., Tetrahedron

Lett., 30:2317 (1989)]; amide bond isostere [Jones et al., Tetrahedron Lett., 29:3853-3856 (1988)]; tretrazol [Zabrocki et al., J. Am. Chem. Soc., 110:5875-5880 (1988)]; DTC [Samanen et al., Int. J. Protein Pep. Res., 35:501:509 (1990)]; and analogs taught in Olson et al., J. Am. Chem. Sci., 112:323-333 (1990) and Garvey et al., J. Org. Chem., 56:436 (1990). Conformationally restricted mimetics of beta turns and beta bulges, and peptides containing them, are described in U.S. Patent No. 5,440,013, issued August 8, 1995 to Kahn.

# Structure-based Mutation Analysis

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Protein structural analysis using NMR spectroscopy has several unique advantages. In addition to high-resolution three-dimensional structural information, the chemical shift assignments for the protein obtained in the structural study further provides a map of the entire protein at the atomic level, which can be used for structure-based biochemical analysis of protein-protein interactions. For example, the information generated from the NMR structural analysis can also serve to identify specific amino acid residues in the peptide-binding site for complementary mutagenesis studies. Specific focus can be placed on those residues that display long-range NOEs (particularly the side-chain NOEs in the <sup>13</sup>C-NOESY data) between the bromoomain and a peptide comprising an acetyl-lysine.

To ensure mutant proteins are valid for functional analysis, it can be determined as to whether a mutation results in any significant perturbation of the overall conformation of the bromodomain, particularly the effects of mutation on the acetyl-lysine binding sites. NMR spectroscopy is a powerful method for examining the effects of such a mutation on the conformation of the protein. One can readily obtain information about the global conformation of a mutant protein from the proton (<sup>1</sup>H) 1D spectrum, by examining the chemical shift dispersion and peak line-width of NMR signals of amide, aromatic and aliphatic protons. Moreover, 2D <sup>1</sup>H-<sup>15</sup>N HSQC spectra reveal details of the effects of a mutation on both local and global conformation of the protein, since every single <sup>1</sup>H/<sup>15</sup>N signal (both the chemical shift and line-shape) in the NMR spectrum is a "reporter" for a particular amino acid residue. Thus, to assess how mutations effect protein stability and the overall protein conformation, the <sup>15</sup>N HSQC

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spectra of mutated proteins can be compared to that of the wild-type protein bromodomain.

Chemical-shift perturbations due to ligand binding have proven to be a reliable and sensitive probe for the ligand binding site of the protein. This is because the chemicalshift changes of the backbone amide groups are likely to reflect any changes in protein conformation and/or hydrogen bonding due to the peptide/ligand binding. To examine the effects of a mutation on the ligand binding (in this case the ligand is a peptide comprising an acetyl-lysine), peptide titration experiments can be conducted by following the changes of <sup>1</sup>H/<sup>15</sup>N signals of the mutant proteins as a function of the peptide concentration. These experiments indicate whether the acetyl-lysine binding site remains the same or changes in the mutants relative to the wild type protein. The effects of the mutation on the peptide binding affinity can also be examined by NMR spectroscopy. If the mutated proteins result in the reduction of the binding affinity, a change of the exchange phenomenon between the free and the ligand-bound signals should be observed in NMR spectrum. If the reduction in binding affinity causes the peptide binding to change from a slow exchange rate to a fast exchange rate, on the NMR time scale, then the peptide binding affinity can be determined from the NMR titration experiment. From these mutation analyses key amino acid residues that are important for binding a peptide comprising the acetyl-lysine can be identified. Such analysis has been exemplified below.

# Protein Structure Determination by NMR Spectroscopy

The NMR results from the present invention are summarized by the atomic structure coordinates of the free form of the P/CAF bromodomain (Table 5) and of the P/CAF bromodomain-acetyl-histamine complex (Table 6). The NMR chemical shift assignments of the P/CAF bromodomain are included in the chemical shift table (Table 1) for the <sup>1</sup>H-<sup>15</sup>N HSQC spectrum of P/CAF bromodomain. The unambiguous NOE-derived Inter-proton Distance Restraints are in Table 2, the ambiguous NOE-derived Inter-proton Distance Restraints are in Table 3, and the <sup>1</sup>H bonding restraints are disclosed in Table 4.

Backbone and Side-chain Assignments: Sequence-specific backbone assignment can be achieved by using a suite of deuterium-decoupled triple-resonance 3D NMR experiments which include HNCA, HN(CO)CA, HN(CA)CB, HN(COCA)CB, HNCO, and HN(CA)CO experiments [Yamazaki, et al., J. Am. Chem. Soc. 116:11655-11666

(1994)]. The water flip-back scheme is used in these NMR pulse programs to minimize amide signal attenuation from water exchange. Sequential side-chain assignments are typically accomplished from a series of 3D NMR experiments with alternative approaches to confirm the assignments. These experiments include 3D <sup>15</sup>N TOCSY-HSQC, HCCH-TOCSY, (H)C(CO)NH-TOCSY, and H(C)(CO)NH-TOCSY

[see Clore, G. M. & Gronenborn, A. M. Meth. Enzymol. 239:249-363 (1994); Sattler et al., Prog. in Nuclear Magnetic Resonance Spec. 4:93-158 (1999)].

Stereospecific Methyl Groups: Stereospecific assignments of methyl groups of Valine and Leucine residues can be obtained from an analysis of carbon signal multiplet splitting using a fractionally <sup>13</sup>C-labeled protein sample, which can be readily prepared using M9 minimal medium containing 10% 13C-/90% 12C-glucose mixture [see Neri, et al., Biochemistry 28:7510-7516 (1989)].

Dihedral Angle Restraints: Backbone dihedral angle ( $\Phi$ ) constraints can be generated from the  $^3J_{\text{HNH}\alpha}$  coupling constants measured in a HNHA-J experiment [see Vuister, G. 20 & Bax, A. J. Am. Chem. Soc. 115:7772-7777 (1993)]. Side-chain dihedral angles (χ1) can be obtained from short mixing time 15N-edited 3D TOCSY-HSQC [see Clore, et al., J, Biomol. NMR 1:13-22 (1991)] and 3D HNHB experiments [see Matson et al., J. Biomol. NMR 3:239-244 (1993)], which can also provide stereospecific assignments of β methylene protons.

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Hydrogen Bonds Restraints: Amide protons that are involved in hydrogen bonds can be identified from an analysis of amide exchange rates measured from a series of 2D <sup>1</sup>H/<sup>15</sup>N HSQC spectra recorded after adding <sup>2</sup>H<sub>2</sub>O to the protein sample.

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NOE Distance Restraints: Distance restraints are obtained from analysis of 15N, and <sup>13</sup>C-edited 3D NOESY data, which can be collected with different mixing times to minimize spin diffusion problems. The nuclear Overhauser effect (NOE)-derived

restraints are categorized as strong (1.8-3 Å), medium (1.8-4 Å) or weak (1.8-5 Å) based on the observed NOE intensities. A recently developed procedure for the iterative automated NOE analysis by using ARIA [see Nilges et al., Prog. NMR Spectroscopy 32:107-139 (1998)] can be employed which integrates with X-PLOR for structural calculations. To ensure the success of ARIA/X-PLOR-assisted NOE analysis and structure calculations, the ARIA assigned NOE peaks can be manually confirmed.

Intermolecular NOE Distance Restrains: For the structural determination of a protein/peptide complex, intermolecular NOE distance restraints can be obtained from a  $^{13}$ C-edited ( $F_1$ ) and  $^{15}$ N, and  $^{13}$ C-filtered ( $F_3$ ) 3D NOESY data set collected for a sample containing isotope-labeled protein and non-labeled peptide.

using a distance geometry/simulated annealing protocol with the X-PLOR program

[see Nilges,et al., FEBS Lett. 229:317-324 (1988); Kuszewski, et al., J. Biolmol. NMR

2:33-56 (1992); Brünger, A. T. X-PLOR Version 3.1: A system for X-Ray

crystallography and NMR (Yale University Press, New Haven, CT, 1993)]. The

structure calculations can employ inter-proton distance restraints obtained from <sup>15</sup>Nand <sup>13</sup>C-resolved NOESY spectra. The initial low-resolution structures can be used to

facilitate NOE assignments, and help identify hydrogen bonding partners for slowly exchanging amide protons. The experimental restraints of dihedral angles and hydrogen bonds can be included in the distance restraints for structure refinements.

# Protein-Structure Based Design of Agonists and Antagonists of the Bromodomain-Acetyl-Lysine Binding Complex

Once the three-dimensional structure of the Bromodomain and the Bromodomain-acetyl-lysine binding complex are determined, a potential drug or agent (antagonist or agonist) can be examined through the use of computer modeling using a docking program such as GRAM, DOCK, or AUTODOCK [Dunbrack et al., 1997, supra]. This procedure can include computer fitting of potential agents to the bromodomain, for example, to ascertain how well the shape and the chemical structure of the potential ligand will complement or interfere with the interaction between the bromodomain and

the acetyl-lysine [Bugg et al., Scientific American, Dec.:92-98 (1993); West et al., TIPS, 16:67-74 (1995)]. Computer programs can also be employed to estimate the attraction, repulsion, and steric hindrance of the agent to the dimer-dimer binding site, for example. Generally the tighter the fit (e.g., the lower the steric hindrance, and/or the greater the attractive force) the more potent the potential drug will be since these properties are consistent with a tighter binding constant. Furthermore, the more specificity in the design of a potential drug the more likely that the drug will not interfere with related proteins. This will minimize potential side-effects due to unwanted interactions with other proteins.

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Initially a potential drug could be obtained by screening a random peptide library produced by recombinant bacteriophage for example, [Scott and Smith, Science, 249:386-390 (1990); Cwirla et al., Proc. Natl. Acad. Sci., 87:6378-6382 (1990); Devlin et al., Science, 249:404-406 (1990)] or a chemical library. An agent selected in this manner could be then be systematically modified by computer modeling programs until one or more promising potential drugs are identified. Such analysis has been shown to be effective in the development of HIV protease inhibitors [Lam et al., Science 263:380-384 (1994); Wlodawer et al., Ann. Rev. Biochem. 62:543-585 (1993); Appelt, Perspectives in Drug Discovery and Design 1:23-48 (1993); Erickson,

Perspectives in Drug Discovery and Design 1:109-128 (1993)]. 20

Such computer modeling allows the selection of a finite number of rational chemical modifications, as opposed to the countless number of essentially random chemical modifications that could be made, any one of which might lead to a useful drug. Each chemical modification requires additional chemical steps, which while being 25 reasonable for the synthesis of a finite number of compounds, quickly becomes overwhelming if all possible modifications needed to be synthesized. Thus, through the use of the three-dimensional structural analysis disclosed herein and computer modeling, a large number of these compounds can be rapidly screened on the computer monitor screen, and a few likely candidates can be determined without the laborious synthesis of untold numbers of compounds.

Once a potential drug (agonist or antagonist) is identified it can be either selected from a library of chemicals as are commercially available from most large chemical companies including Merck, GlaxoWelcome, Bristol Meyers Squib, Monsanto/Searle, Eli Lilly, Novartis and Pharmacia UpJohn, or alternatively the potential drug may be synthesized *de novo*. As mentioned above, the *de novo* synthesis of one or even a relatively small group of specific compounds is reasonable in the art of drug design.

The potential drug can then be tested in any standard binding assay (including in high throughput binding assays) for its ability to bind to the ZA loop of a bromodomain.

Alternatively the potential drug can be tested for its ability to modulate the binding of a bromodomain to acetylated histamine, for example. When a suitable potential drug is identified, a second NMR structural analysis can optionally be performed on the binding complex formed between the bromodomain-acetyl-lysine binding complex, or the bromodomain alone and the potential drug. Computer programs that can be used to aid in solving such three-dimensional structures include QUANTA, CHARMM, INSIGHT, SYBYL, MACROMODE, and ICM, MOLMOL, RASMOL, AND GRASP [Kraulis, J. Appl Crystallogr. 24:946-950 (1991)]. Most if not all of these programs and others as well can be also obtained from the WorldWideWeb through the internet.

Using the approach described herein and equipped with the structural analysis disclosed herein, the three-dimensional structures of other bromodomain-acetyl-lysine binding complexes can more readily be obtained and analyzed. Such analysis will, in turn, allow corresponding drug screening methodology to be performed using the three-dimensional structures of such related complexes.

For all of the drug screening assays described herein further refinements to the structure of the drug will generally be necessary and can be made by the successive iterations of any and/or all of the steps provided by the particular drug screening assay, including further structural analysis by NMR, for example.

Phage libraries for Drug Screening.

Phage libraries have been constructed which when infected into host *E. coli* produce random peptide sequences of approximately 10 to 15 amino acids [Parmley and Smith,

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Gene 73:305-318 (1988), Scott and Smith, Science 249:386-249 (1990)]. Specifically, the phage library can be mixed in low dilutions with permissive E. coli in low melting point LB agar which is then poured on top of LB agar plates. After incubating the plates at 37°C for a period of time, small clear plaques in a lawn of E. coli will form which represents active phage growth and lysis of the E. coli. A representative of these phages can be absorbed to nylon filters by placing dry filters onto the agar plates. The filters can be marked for orientation, removed, and placed in washing solutions to block any remaining absorbent sites. The filters can then be placed in a solution containing, for example, a radioactive bromodomain. After a specified incubation period, the filters can be thoroughly washed and developed for autoradiography. 10 Plaques containing the phage that bind to the radioactive bromodomain can then be identified. These phages can be further cloned and then retested for their ability to bind to the bromodomain as before. Once the phage has been purified, the binding sequence contained within the phage can be determined by standard DNA sequencing techniques. Once the DNA sequence is known, synthetic peptides can be generated 15 which are encoded by these sequences. These peptides can be tested, for example, for their ability to modulate the affinity of the bromodomain for its binding partner (e.g., a protein comprising an acetyl-lysine or a fragment of that protein).

The effective peptide(s) can be synthesized in large quantities for use in *in vivo* models and eventually in humans to treat certain tumors. It should be emphasized that synthetic peptide production is relatively non-labor intensive, easily manufactured, quality controlled and thus, large quantities of the desired product can be produced quite cheaply. Similar combinations of mass produced synthetic peptides have been used with great success [Patarroyo, *Vaccine*, **10:**175-178 (1990)].

### **Drug Screening Assays**

The drug screening assays of the present invention may use any of a number of means for determining the interaction between an agent or drug and a peptide comprising an acetyl-lysine and/or a bromodomain. Thus, standard high throughput drug screening procedures can be employed using a library of low molecular weight compounds, for

example that can be screened to identify a binding partner for the bromodoamin. Any such chemical library can be used including those discussed above.

In a particular assay, a bromodomain is placed on or coated onto a solid support.

Methods for placing the peptides or proteins on the solid support are well known in the art and include such things as linking biotin to the protein and linking avidin to the solid support. An agent is allowed to equilibrate with the bromodomain to test for binding. Generally, the solid support is washed and agents that are retained are selected as potential drugs. Alternatively, a peptide comprising an acetyl-lysine is placed on or coated onto a solid support. In a particular embodiment of this type, the peptide comprises the amino acid sequence of SEQ ID NO:4.

The agent may be labeled. For example, in one embodiment radiolabeled agents are used to measure the binding of the agent. In another embodiment the agents have fluorescent markers. In yet another embodiment, a Biocore chip (Pharmacia) coated with the bromodomain is used, for example and the change in surface conductivity can be measured.

In addition, since a number of proteins have been identified that contain

20 bromodomains, and the binding partners of many of these proteins are known, the fact that the bromodomain specifically binds to an acetylated lysine as disclosed herein allows the identification and preparation of a number of potential modulators of the bromodomain-acetyl-lysine binding complex based on the amino acid sequences of the binding partners to the proteins. Such potential modulators include: ISYGR-AcK-

KRRQRR (SEQ ID NO:4), ARKSTGG-AcK-APRKQL (SEQ ID NO:5) and QSTSRHK-AcK-LMFKTE (SEQ ID NO:6) which bind to the P/CAF bromodomain as shown in the Example, below. Such peptides also can be used, for example, as a starting point for the design of an inhibitor of the bromodomain-acetyl-lysine binding complex.

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Alternatively, a drug can be specifically designed to bind to the ZA loop of a bromodomain for example, such as the P/CAF bromodomain, and be assayed through NMR based methodology [Shuker *et al.*, *Science* **274**:1531-1534 (1996) hereby

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incorporated by reference in its entirety.] In a particular embodiment, analogs of the binding partner of the bromodomain can be used in this analysis. One such peptide has the amino acid sequence of SEQ ID NO:4. In another embodiment of this type, the peptide has the amino acid sequence of SEQ ID NO:5. In another such embodiment of this type, the peptide has the amino acid sequence of SEQ ID NO:6.

The assay begins with contacting a compound with a <sup>15</sup>N-labeled bromodomain. Binding of the compound with the ZA loop of the bromodomain can be determined by monitoring the <sup>15</sup>N- or <sup>1</sup>H-amide chemical shift changes in two dimensional <sup>15</sup>Nheteronuclear single-quantum correlation (15N-HSQC) spectra upon the addition of the compound to the <sup>15</sup>N-labeled bromodomain. Since these spectra can be rapidly obtained, it is feasible to screen a large number of compounds [Shuker et al., Science 274:1531-1534 (1996)]. A compound is identified as a potential ligand if it binds to the ZA loop of the bromodomain. In a further embodiment, the potential ligand can then be used as a model structure, and analogs to the compound can be obtained (e.g, from the vast chemical libraries commercially available, or alternatively through denovo synthesis). The analogs are then screened for their ability to bind the ZA loop of the bromodomain thus to obtain a ligand. An analog of the potential ligand is chosen as a ligand when it binds to the ZA loop of the bromodomain with a higher binding affinity than the potential ligand. In a preferred embodiment of this type the analogs are screened by monitoring the 15N- or 1H-amide chemical shift changes in two dimensional <sup>15</sup>N-heteronuclear single-quantum correlation (<sup>15</sup>N-HSQC) spectra upon the addition of the analog to the <sup>15</sup>N-labeled bromodomain as described above.

In another further embodiment, compounds are screened for binding to two nearby sites on the bromodomain. In this case, a compound that binds a first site of the bromodomain does not bind a second nearby site. Binding to the second site can be determined by monitoring changes in a different set of amide chemical shifts in either the original screen or a second screen conducted in the presence of a ligand (or potential ligand) for the first site. From an analysis of the chemical shift changes the approximate location of a potential ligand for the second site is identified. Optimization of the second ligand for binding to the site is then carried out by screening structurally related compounds (e.g., analogs as described above). When

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ligands for the first site and the second site are identified, their location and orientation in the ternary complex can be determined experimentally either by NMR spectroscopy or X-ray crystallography. On the basis of this structural information, a linked compound is synthesized in which the ligand for the first site and the ligand for the second site are linked. In a preferred embodiment of this type the two ligands are covalently linked. This linked compound is tested to determine if it has a higher binding affinity for the bromodomain than either of the two individual ligands. A linked compound is selected as a ligand when it has a higher binding affinity for the bromodomain than either of the two ligands. In a preferred embodiment the affinity of the linked compound with the bromodomain is determined monitoring the <sup>15</sup>N- or <sup>1</sup>H- amide chemical shift changes in two dimensional <sup>15</sup>N-heteronuclear single-quantum correlation (<sup>15</sup>N-HSQC) spectra upon the addition of the linked compound to the <sup>15</sup>N- labeled bromodomain as described above.

A larger linked compound can be constructed in an analogous manner, e.g., linking three ligands which bind to three nearby sites on the bromodomain to form a multilinked compound that has an even higher affinity for the bromodomain than the linked compound.

### Identification of New Bromodomains

By disclosing that protein bound acetyl-lysine is a binding partner for bromodomains, the present invention provides a method of identifying novel proteins that contain bromodomains. In short, a protein fragment or analog thereof comprising an acetyllysine can be used as bait to identify a binding partner that comprises a bromodomain. Any one of a number of procedures can be carried out to identify such a binding partner. One such assay comprises passing a cell extract over the bait peptide which is attached to a solid support. After washing the solid support to remove any non-specific binders, the bromodomain containing protein can be eluted from the solid support with an appropriate eluant. In a particular embodiment, the free bait peptide can be used in the elution. Other methodology includes the use of a yeast two-hybrid system, a GST pull down assay, ELISA, immunometric assays, and a modification of the CORT procedure of Schlessinger *et al.*, (US Patent No. 5,858,686, Issued on

January 12, 1999 which is hereby incorporated by reference in its entirety) for use with the bromodomain-acetyl-lysine binding complex.

### Labels:

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Suitable labels include enzymes, fluorophores (*e.g.*, fluorescein isothiocyanate (FITC), phycoerythrin (PE), Texas red (TR), rhodamine, free or chelated lanthanide series salts, especially Eu<sup>3+</sup>, to name a few fluorophores), chromophores, radioisotopes, chelating agents, dyes, colloidal gold, latex particles, ligands (*e.g.*, biotin), and chemiluminescent agents. When a control marker is employed, the same or different labels may be used for the test and control marker gene.

In the instance where a radioactive label, such as the isotopes <sup>3</sup>H, <sup>14</sup>C, <sup>32</sup>P, <sup>35</sup>S, <sup>36</sup>Cl, <sup>51</sup>Cr, <sup>57</sup>Co, <sup>58</sup>Co, <sup>59</sup>Fe, <sup>90</sup>Y, <sup>125</sup>I, <sup>131</sup>I, and <sup>186</sup>Re are used, known currently available counting procedures may be utilized. In the instance where the label is an enzyme, detection may be accomplished by any of the presently utilized colorimetric, spectrophotometric, fluorospectrophotometric, amperometric or gasometric techniques known in the art.

Direct labels are one example of labels which can be used according to the present invention. A direct label has been defined as an entity, which in its natural state, is readily visible, either to the naked eye, or with the aid of an optical filter and/or applied stimulation, e.g. U.V. light to promote fluorescence. Among examples of colored labels, which can be used according to the present invention, include metallic sol
particles, for example, gold sol particles such as those described by Leuvering (U.S. Patent 4,313,734); dye sole particles such as described by Gribnau et al. (U.S. Patent 4,373,932 and May et al. (WO 88/08534); dyed latex such as described by May, supra, Snyder (EP-A 0 280 559 and 0 281 327); or dyes encapsulated in liposomes as described by Campbell et al. (U.S. Patent 4,703,017). Other direct labels include a
radionucleotide, a fluorescent moiety or a luminescent moiety. In addition to these direct labeling devices, indirect labels comprising enzymes can also be used according to the present invention. Various types of enzyme linked immunoassays are well known in the art, for example, alkaline phosphatase and horseradish peroxidase,

lysozyme, glucose-6-phosphate dehydrogenase, lactate dehydrogenase, urease, these and others have been discussed in detail by Eva Engvall in Enzyme Immunoassay ELISA and EMIT in *Methods in Enzymology*, **70:**419-439 (1980) and in U.S. Patent 4.857,453.

Suitable enzymes include, but are not limited to, alkaline phosphatase,  $\beta$ -galactosidase, green fluorescent protein and its derivatives, luciferase, and horseradish peroxidase.

Other labels for use in the invention include magnetic beads or magnetic resonance imaging labels.

# Antibodies to Portions of the Bromodomain that Interact with Acetyl-Lysine

According to the present invention, the bromodomains, and more particularly the ZA loops of the bromodomains and fragments thereof can be produced by a recombinant source, or through chemical synthesis, or through the modification of these peptides and fragments; and derivatives or analogs thereof, including fusion proteins, may be used as an immunogen to generate antibodies that specifically interfere with the formation of the bromodomain-acetyl-lysine binding complex. Similarly, antibodies can be raised against peptides that comprise one or more acetyl-lysine residues which also interfere with the formation of the bromodomain-acetyl-lysine binding complex. Such antibodies include but are not limited to polyclonal, monoclonal, chimeric, single chain, Fab fragments, and a Fab expression library.

Various procedures known in the art may be used for the production of the polyclonal antibodies. For the production of antibody, various host animals can be immunized by injection with the peptide having the amino acid sequence of SEQ ID NO:3, for example, or a derivative (e.g., or fusion protein) thereof, including but not limited to rabbits, mice, rats, sheep, goats, etc. In one embodiment, the peptide can be conjugated to an immunogenic carrier, e.g., bovine serum albumin (BSA) or keyhole limpet hemocyanin (KLH). Various adjuvants may be used to increase the immunological response, depending on the host species, including but not limited to Freund's (complete and incomplete), mineral gels such as aluminum hydroxide, surface

active substances such as lysolecithin, pluronic polyols, polyanions, peptides, oil emulsions, keyhole limpet hemocyanins, dinitrophenol, and potentially useful human adjuvants such as BCG (bacille Calmette-Guerin) and Corynebacterium parvum.

For preparation of monoclonal antibodies directed toward the peptides or protein fragments of the present invention, or analog, or derivative thereof, any technique that provides for the production of antibody molecules by continuous cell lines in culture may be used. These include but are not limited to the hybridoma technique originally developed by Kohler and Milstein [Nature, 256:495-497 (1975)], as well as the trioma 10 technique, the human B-cell hybridoma technique [Kozbor et al., Immunology Today, 4:72 (1983); Cote et al., Proc. Natl. Acad. Sci. U.S.A., 80:2026-2030 (1983)], and the EBV-hybridoma technique to produce human monoclonal antibodies [Cole et al., in Monoclonal Antibodies and Cancer Therapy, Alan R. Liss, Inc., pp. 77-96 (1985)]. In an additional embodiment of the invention, monoclonal antibodies can be produced in germ-free animals utilizing technology described in PCT/US90/02545. In fact, 15 according to the invention, techniques developed for the production of "chimeric antibodies" [Morrison et al., J. Bacteriol., 159:870 (1984); Neuberger et al., Nature, 312:604-608 (1984); Takeda et al., Nature, 314:452-454 (1985)] by splicing the genes from a mouse antibody molecule specific for the peptide having the amino acid sequence of SEQ ID NO:3, for example, together with genes from a human antibody molecule of appropriate biological activity can be used; such antibodies are within the scope of this invention. Such human or humanized chimeric antibodies are preferred for use in therapy of human diseases or disorders (described infra), since the human or humanized antibodies are much less likely than xenogenic antibodies to induce an immune response, in particular an allergic response, themselves.

According to the invention, techniques described for the production of single chain antibodies [U.S. Patent Nos. 5,476,786 and 5,132,405 to Huston; U.S. Patent 4,946,778] can be adapted to produce specific single chain antibodies. An additional embodiment of the invention utilizes the techniques described for the construction of Fab expression libraries [Huse *et al.*, *Science*, **246**:1275-1281 (1989)] to allow rapid and easy identification of monoclonal Fab fragments with the desired specificity.

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Antibody fragments which contain the idiotype of the antibody molecule can be generated by known techniques. For example, such fragments include but are not limited to: the  $F(ab')_2$  fragment which can be produced by pepsin digestion of the antibody molecule; the Fab' fragments which can be generated by reducing the disulfide bridges of the  $F(ab')_2$  fragment, and the Fab fragments which can be generated by treating the antibody molecule with papain and a reducing agent.

In the production of antibodies, screening for the desired antibody can be accomplished by techniques known in the art, e.g., radioimmunoassay, ELISA (enzyme-linked immunosorbant assay), "sandwich" immunoassays, immunoradiometric assays, gel diffusion precipitin reactions, immunodiffusion assays, in situ immunoassays (using colloidal gold, enzyme or radioisotope labels, for example), western blots, precipitation reactions, agglutination assays (e.g., gel agglutination assays, hemagglutination assays), complement fixation assays, immunofluorescence assays, protein A assays, and immunoelectrophoresis assays, etc. In one embodiment, antibody binding is detected by detecting a label on the primary antibody. In another embodiment, the primary antibody is detected by detecting binding of a secondary antibody or reagent to the primary antibody. In a further embodiment, the secondary antibody is labeled. Many means are known in the art for detecting binding in an immunoassay and are within the scope of the present invention. For example, to select antibodies which recognize a specific epitope of a ZA loop of a bromodomain, for example, one may assay generated hybridomas for a product which binds to a bromodomain fragment containing such an epitope and choose those which do not cross-react with bromodomain fragments that do not include that epitope.

In a specific embodiment, antibodies that interfere with the formation of the bromodomain-acetyl-lysine complex can be generated. Such antibodies can be tested using the assays described and could potentially be used in anti-cancer therapies.

#### Administration Administration

According to the invention, the component or components of a therapeutic composition, e.g., an agent of the invention that interferes with the bromodomain-

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acetyl-lysine binding complex such as the peptide having the amino acid sequence of SEQ ID NOs:4, 5, or 6 and a pharmaceutically acceptable carrier, may be introduced parenterally, transmucosally, *e.g.*, orally, nasally, or rectally, or transdermally. Preferably, administration is parenteral, *e.g.*, via intravenous injection, and also including, but is not limited to, intra-arteriole, intramuscular, intradermal, subcutaneous, intraperitoneal, intraventricular, and intracranial administration.

In a preferred aspect, the agent of the present invention can cross cellular and nuclear membranes, which would allow for intravenous or oral administration. Strategies are available for such crossing, including but not limited to, increasing the hydrophobic nature of a molecule; introducing the molecule as a conjugate to a carrier, such as a ligand to a specific receptor, targeted to a receptor; and the like.

The present invention also provides for conjugating targeting molecules to such an agent. "Targeting molecule" as used herein shall mean a molecule which, when administered *in vivo*, localizes to desired location(s). In various embodiments, the targeting molecule can be a peptide or protein, antibody, lectin, carbohydrate, or steroid. In one embodiment, the targeting molecule is a peptide ligand of a receptor on the target cell. In a specific embodiment, the targeting molecule is an antibody.

Preferably, the targeting molecule is a monoclonal antibody. In one embodiment, to facilitate crosslinking the antibody can be reduced to two heavy and light chain heterodimers, or the F(ab')<sub>2</sub> fragment can be reduced, and crosslinked to the agent via the reduced sulfhydryl. Antibodies for use as targeting molecule are specific for a cell surface antigen.

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In another embodiment, the therapeutic compound can be delivered in a vesicle, in particular a liposome [see Langer, Science, 249:1527-1533 (1990); Treat et al., in Liposomes in the Therapy of Infectious Disease and Cancer, Lopez-Berestein and Fidler (eds.), Liss: New York, pp. 353-365 (1989); Lopez-Berestein, ibid., pp. 317-327; see generally ibid.].

In yet another embodiment, the therapeutic compound can be delivered in a controlled release system. For example, the agent may be administered using intravenous infusion, an implantable osmotic pump, a transdermal patch, liposomes, or other modes of administration. In one embodiment, a pump may be used [see Langer, supra; Sefton, CRC Crit. Ref. Biomed. Eng., 14:201 (1987); Buchwald et al., Surgery, 88:507 (1980); Saudek et al., N. Engl. J. Med., 321:574 (1989)]. In another embodiment, polymeric materials can be used [see Medical Applications of Controlled Release, Langer and Wise (eds.), CRC Press: Boca Raton, Florida (1974); Controlled Drug Bioavailability, Drug Product Design and Performance, Smolen and Ball (eds.), Wiley: New York (1984); Ranger and Peppas, J. Macromol. Sci. Rev. Macromol. Chem., 23:61 (1983); see also Levy et al., Science, 228:190 (1985); During et al., Ann. Neurol., 25:351 (1989); Howard et al., J. Neurosurg., 71:105 (1989)]. In yet another embodiment, a controlled release system can be placed in proximity of the therapeutic target, i.e., the bone marrow, thus requiring only a fraction of the systemic dose [see, e.g., Goodson, in Medical Applications of Controlled Release, supra, vol. 2, pp. 115-138 (1984)]. Other controlled release systems are discussed in the review by Langer [Science, 249:1527-1533 (1990)].

Pharmaceutical Compositions. In yet another aspect of the present invention, provided are pharmaceutical compositions of the above. Such pharmaceutical compositions may be for administration for injection, or for oral, pulmonary, nasal or other forms of administration. In general, comprehended by the invention are pharmaceutical compositions comprising effective amounts of a low molecular weight component or components, or derivative products, of the invention together with pharmaceutically acceptable diluents, preservatives, solubilizers, emulsifiers, adjuvants and/or carriers. Such compositions include diluents of various buffer content (e.g., Tris-HCl, acetate, phosphate), pH and ionic strength; additives such as detergents and solubilizing agents (e.g., Tween 80, Polysorbate 80), anti-oxidants (e.g., ascorbic acid, sodium metabisulfite), preservatives (e.g., Thimersol, benzyl alcohol) and bulking substances (e.g., lactose, mannitol); incorporation of the material into particulate preparations of polymeric compounds such as polylactic acid, polyglycolic acid, etc. or into liposomes. Hylauronic acid may also be used. Such compositions may influence the physical state, stability, rate of in vivo release, and rate of in vivo clearance of the present proteins and derivatives. See, e.g., Remington's Pharmaceutical Sciences, 18th Ed. [1990, Mack Publishing Co., Easton, PA 18042] pages 1435-1712 which are herein

incorporated by reference. The compositions may be prepared in liquid form, or may be in dried powder, such as lyophilized form.

Oral Delivery. Contemplated for use herein are oral solid dosage forms, which are described generally in Remington's Pharmaceutical Sciences, 18th Ed.1990 (Mack Publishing Co. Easton PA 18042) at Chapter 89, which is herein incorporated by reference. Solid dosage forms include tablets, capsules, pills, troches or lozenges, cachets or pellets. Also, liposomal or proteinoid encapsulation may be used to formulate the present compositions (as, for example, proteinoid microspheres reported in U.S. Patent No. 4,925,673). Liposomal encapsulation may be used and the liposomes may be derivatized with various polymers (e.g., U.S. Patent No. 5,013,556). A description of possible solid dosage forms for the therapeutic is given by Marshall, K. In: *Modern Pharmaceutics* Edited by G.S. Banker and C.T. Rhodes Chapter 10, 1979, herein incorporated by reference. In general, the formulation will include an agent of the present invention (or chemically modified forms thereof) and inert ingredients which allow for protection against the stomach environment, and release of the biologically active material in the intestine.

Also specifically contemplated are oral dosage forms of the above derivatized component or components. The component or components may be chemically modified so that oral delivery of the derivative is efficacious. Generally, the chemical modification contemplated is the attachment of at least one moiety to the component molecule itself, where said moiety permits (a) inhibition of proteolysis; and (b) uptake into the blood stream from the stomach or intestine. Also desired is the increase in overall stability of the component or components and increase in circulation time in the body. An example of such a moiety is polyethylene glycol.

For the component (or derivative) the location of release may be the stomach, the small intestine (the duodenum, the jejunum, or the ileum), or the large intestine. One skilled in the art has available formulations which will not dissolve in the stomach, yet will release the material in the duodenum or elsewhere in the intestine. Preferably, the release will avoid the deleterious effects of the stomach environment, either by

protection of the protein (or derivative) or by release of the biologically active material beyond the stomach environment, such as in the intestine.

The therapeutic can be included in the formulation as fine multi-particulates in the form of granules or pellets of particle size about 1 mm. The formulation of the material for capsule administration could also be as a powder, lightly compressed plugs or even as tablets. The therapeutic could be prepared by compression.

One may dilute or increase the volume of the therapeutic with an inert material. These diluents could include carbohydrates, especially mannitol, a-lactose, anhydrous lactose, cellulose, sucrose, modified dextrans and starch. Certain inorganic salts may be also be used as fillers including calcium triphosphate, magnesium carbonate and sodium chloride. Some commercially available diluents are Fast-Flo, Emdex, STA-Rx 1500, Emcompress and Avicell.

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Disintegrants may be included in the formulation of the therapeutic into a solid dosage form. Materials used as disintegrates include but are not limited to starch, including the commercial disintegrant based on starch, Explotab. Binders also may be used to hold the therapeutic agent together to form a hard tablet and include materials from natural products such as acacia, tragacanth, starch and gelatin.

An anti-frictional agent may be included in the formulation of the therapeutic to prevent sticking during the formulation process. Lubricants may be used as a layer between the therapeutic and the die wall. Glidants that might improve the flow properties of the drug during formulation and to aid rearrangement during compression also might be added. The glidants may include starch, talc, pyrogenic silica and hydrated silicoaluminate.

In addition, to aid dissolution of the therapeutic into the aqueous environment a

surfactant might be added as a wetting agent. Additives which potentially enhance
uptake of the protein (or derivative) are for instance the fatty acids oleic acid, linoleic
acid and linolenic acid.

انبر د Nasal Delivery. Nasal delivery of an agent of the present invention (or derivative) is also contemplated. Nasal delivery allows the passage of a peptide, for example, to the blood stream directly after administering the therapeutic product to the nose, without the necessity for deposition of the product in the lung. Formulations for nasal delivery include those with dextran or cyclodextran.

Transdermal administration. Various and numerous methods are known in the art for transdermal administration of a drug, e.g., via a transdermal patch. Transdermal patches are described in for example, U.S. Patent No. 5,407,713, issued April 18, 1995 to Rolando et al.; U.S. Patent No. 5,352,456, issued October 4, 1004 to Fallon et al.; U.S. Patent No. 5,332,213 issued August 9, 1994 to D'Angelo et al.; U.S. Patent No. 5,336,168, issued August 9, 1994 to Sibalis; U.S. Patent No. 5,290,561, issued March 1, 1994 to Farhadieh et al.; U.S. Patent No. 5,254,346, issued October 19, 1993 to Tucker et al.; U.S. Patent No. 5,164,189, issued November 17, 1992 to Berger et al.; U.S. Patent No. 5,088,977 and 5,087,240, both issued February 18, 1992 to Sibalis; U.S. Patent No. 5,008,110, issued April 16, 1991 to Benecke et al.; and U.S. Patent No. 4,921,475, issued May 1, 1990 to Sibalis, the disclosure of each of which is incorporated herein by reference in its entirety.

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It can be readily appreciated that a transdermal route of administration may be enhanced by use of a dermal penetration enhancer, e.g., such as enhancers described in U.S. Patent No. 5,164,189 (supra), U.S. Patent No. 5,008,110 (supra), and U.S. Patent No. 4,879,119, issued November 7, 1989 to Aruga et al., the disclosure of each of which is incorporated herein by reference in its entirety.

Pulmonary Delivery. Also contemplated herein is pulmonary delivery of the pharmaceutical compositions of the present invention. A pharmaceutical composition of the present invention is delivered to the lungs of a mammal while inhaling and traverses across the lung epithelial lining to the blood stream. Other reports of this include Adjei et al. [Pharmaceutical Research, 7:565-569 (1990); Adjei et al., International Journal of Pharmaceutics, 63:135-144 (1990) (leuprolide acetate); Braquet et al., Journal of Cardiovascular Pharmacology, 13(suppl. 5):143-146 (1989)

(endothelin-1); Hubbard et al., Annals of Internal Medicine, Vol. III, pp. 206-212 (1989) (α1-antitrypsin); Smith et al., J. Clin. Invest., 84:1145-1146 (1989) (α-1-proteinase); Oswein et al., "Aerosolization of Proteins", Proceedings of Symposium on Respiratory Drug Delivery II, Keystone, Colorado, March, (1990) (recombinant human growth hormone); Debs et al., J. Immunol., 140:3482-3488 (1988) (interferon-γ and tumor necrosis factor alpha); Platz et al., U.S. Patent No. 5,284,656 (granulocyte colony stimulating factor)]. A method and composition for pulmonary delivery of drugs for systemic effect is described in U.S. Patent No. 5,451,569, issued September 19, 1995 to Wong et al.

A subject in whom administration of an agent of the present invention is an effective therapeutic regiment for cancer, for example, is preferably a human, but can be any animal. Thus, as can be readily appreciated by one of ordinary skill in the art, the methods and pharmaceutical compositions of the present invention are particularly suited to administration to any animal, *e.g.*, for veterinary medical use, particularly for a mammal, and including, but by no means limited to, domestic animals, such as feline or canine subjects, farm animals, including bovine, equine, caprine, ovine, and porcine subjects, wild animals (whether in the wild or in a zoological garden), research animals, such as mice, rats, rabbits, goats, sheep, pigs, dogs, cats, avian species, such as chickens, turkeys, and songbirds.

The present invention may be better understood by reference to the following non-limiting Example, which is provided as exemplary of the invention. The following example is presented in order to more fully illustrate the preferred embodiments of the invention. It should in no way be construed, however, as limiting the broad scope of the invention.

### **EXAMPLE**

# STRUCTURE AND LIGAND OF A HISTONE ACETYLTRANSFERASE BROMODOMAIN

5 <u>Introduction</u>

The bromodomain is a protein motif comprising approximately 110 amino acids that is found in practically all nuclear histone acetyltransferases (HATs) [Jeanmougin *et al.*, Trends in Biochemical *Sciences*, **22:**151-153 (1997)]. However, despite the seemingly requisite occurrence of this motif in HATs, their role in these enzymes is unknown.

Indeed, although this motif has also been identified in other chromatin proteins, heretofore not even one binding partner for a bromodomain had been identified.

### Materials and Methods

Sample preparation: The bromodomain of P/CAF (residues 719-832 of SEQ ID NO:2)
was subcloned into the pET14b expression vector (Novagen) and expressed in Escherichia coli BL21(DE3) cells. Uniformly <sup>15</sup>N- and <sup>15</sup>N/<sup>13</sup>C-labelled proteins were prepared by growing bacteria in a minimal medium containing <sup>15</sup>NH<sub>4</sub>Cl with or without <sup>13</sup>C<sub>6</sub>-glucose. A uniformly <sup>15</sup>N/<sup>13</sup>C-labelled and fractionally deuterated protein sample was prepared by growing the cells in 75% <sup>2</sup>H<sub>2</sub>O. The bromodomain was
purified by affinity chromatography on a nickel-IDA column (Invitrogen) followed by the removal of poly-His tag by thrombin cleavage. The final purification of the protein was achieved by size-exclusion chromatography. The acetyl-lysine-containing peptides were prepared on a MilliGen 9050 peptide synthesizer (Perkin Elmer) using Fmoc/HBTU chemistry. Acetyl-lysine was incorporated using the reagent
Fmoc-Ac-Lys with HBTU/DIPEA activation. NMR samples contained approximately 1 mM protein in 100mM phosphate buffer of pH 6.5 and 5mM perdeuterated DTT and 0.5mM EDTA in H<sub>2</sub>O/<sup>2</sup>H<sub>2</sub>O (9/1) or <sup>2</sup>H<sub>2</sub>O.

NMR spectroscopy: All NMR spectra were acquired at 30°C on a Bruker DRX600 or DRX500 spectrometer. The backbone assignments of the <sup>1</sup>H, <sup>13</sup>C, and <sup>15</sup>N resonances were achieved using deuterium-decoupled triple-resonance experiments of HNCACB and HN(CO)CACB [Yamazaki et al., J. Am. Chem. Soc. 116:11655-11666 (1994)] recorded using the uniformly <sup>15</sup>N/<sup>13</sup>C-labeled and fractionally deuterated protein. The

side-chain atoms were assigned from 3D HCCH-TOCSY [Clore and Gronenborn, Meth. Enzymol. 239:249-363 (1994)] and (H)C(CO)NH-TOCSY [Logan et al., J. Biolmol. NMR 3:225-231 (1993)] data collected on the uniformly <sup>15</sup>N/<sup>13</sup>C-labeled protein. Stereospecific assignments of methyl groups of the Val and Leu residues were obtained using a fractionally <sup>13</sup>C-labeled sample [Neri et al., Biochemistry 28:7510-7516 (1989)]. The NOE-derived distance restraints were obtained from <sup>15</sup>N- or  $^{13}$ C-edited 3D NOESY spectra.  $\phi$ -angle restraints were determined based on the  $^3J_{\mathrm{HN,H}^{lpha}}$  coupling constants measured in a 3D HNHA spectrum [Clore and Gronenborn, Meth. Enzymol. 239:249-363 (1994)]. Slowly exchanging amide protons were identified from a series of 2D 15N-HSQC spectra recorded after the H<sub>2</sub>O buffer was changed to a <sup>2</sup>H<sub>2</sub>O buffer. The intermolecular NOEs used in defining the structure of the bromodomain/Ac-histamine complex were detected in <sup>13</sup>C-edited (F<sub>1</sub>), <sup>13</sup>C/<sup>15</sup>N-filtered (F<sub>3</sub>) 3D NOESY spectrum [Clore and Gronenborn, *Meth. Enzymol.* 239:249-363 (1994)]. All NMR spectra were processed with the NMRPipe/NMRDraw programs and analyzed using NMRView [Johnson and Blevins, J. Biomol., NMR 4:603-614 (1994)].

Structure calculations: Structures of the bromodomain were calculated with a distance geometry/simulated annealing protocol using the X-PLOR program [Brunger, A. X-PLOR Version 3.1: A system for X-Ray crystallography and NMR, Yale University 20 Press, New Haven, CT, (1993)]. A total of 1324 manually assigned NOE-derived distance restraints were obtained from the <sup>15</sup>N- and <sup>13</sup>C-edited NOE spectra. Further analysis of the NOE spectra was carried out by the iterative automated assignment procedure using ARIA [Nilges and O'Donoghue, Prog. NMR Spectroscopy 32:107-139 (1998)], which integrates with X-PLOR for structure calculations. A total of 1519 25 unambiguous and 590 ambiguous distance restraints were identified from the NOE data by ARIA, many of which were checked and confirmed manually. The ARIA-assigned distance restraints were in agreement with the structures calculated using only the manually assigned NOE distance restraints, 28 hydrogen-bond distance restraints for 14 hydrogen bonds, and  $54\phi$ -angle restraints. The final structure calculations employed a total of 3515 NMR experimental restraints obtained from the manual and the ARIA-assisted assignments, 2843 of which were unambiguously assigned NOE-derived distance restraints that comprise of 1077 intra-residue, 621

sequential, 550 medium-range, and 595 long-range NOEs. For the ensemble of the final 30 structures, no distance and torsional angle restraints were violated by more than 0.3Å and 5°, respectively. The total, distance violation, and dihedral violation energies were  $178.7 \pm 2.4 \text{ kcal mol}^{-1}$ ,  $41.6 \pm 0.9 \text{ kcal mol}^{-1}$ , and  $0.50 \pm 0.06 \text{ kcal mol}^{-1}$ , respectively. The Lennard-Jones potential which was not used during any refinement stage, was  $-526.2 \pm 16.8$  kcal mol<sup>-1</sup> for the final structures. Ramachandran plot analysis of the final structures (residues 727-828) with Procheck-NMR [Laskowski et al., J. Biolmol. NMR 8:477-486 (1996)] showed that  $71.0 \pm 0.6\%$ ,  $23.8 \pm 0.6\%$ ,  $3.5 \pm 0.2\%$ , and  $1.7 \pm 0.2\%$  of the non-Gly and non-Pro residues were in the most favorable, 10 additionally allowed, generously allowed, and disallowed regions, respectively. The corresponding values for the residues in the four  $\alpha$ -helices (residues 727-743, 770-776, 785-802, and 807-827) were  $88.9 \pm 0.4\%$ ,  $11.0 \pm 0.4\%$ ,  $0.1 \pm 0.1\%$ , and  $0.0 \pm 0.0\%$ , respectively. The structure of the bromodomain/acetyl-histamine complex was determined using the free form structure and additional 25 intermolecular and 5 15 intra-ligand NOE-derived distance restraints.

Site-directed mutagenesis: Mutant proteins were prepared using the QuickChange site-directed mutagenesis kit (Stratagene). The presence of appropriate mutations was confirmed by DNA sequencing.

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Ligand titration: Ligand titration experiments were performed by recording a series of 2D <sup>15</sup>N- and <sup>13</sup>C-HSQC spectra on the uniformly <sup>15</sup>N-, and <sup>15</sup>N/<sup>13</sup>C-labelled bromodomain (~0.3mM), respectively, in the presence of different amounts of ligand concentration ranging from 0 to approximately 2.0 mM. The protein sample and the stock solutions of the ligands were all prepared in the same aqueous buffer containing 100mM phosphate and 5mM perdeuterated DTT at pH 6.5.

The full length nucleic acid sequence of the human p300/CBP-associated factor (P/CAF) was obtained from GenBank. Accession No: U57317.2 (SEQ ID NO:1):

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1 ggggccgcgt cgacgcggaa aagaggccgt ggggggcctc ccagcgctgg cagacaccgt
61 gaggctggca gccgcggaa cgcacaccta gtccgcagtc ccgaggaaca tgtccgcagc
121 cagggcgcgg agcagagtcc cgggcaggag aaccaaggga gggcgtgtgc tgtggcggcg
181 gcggcagcgg cagcggagcc gctagtcccc tccctctgg gggagcagct gccggcgctg
241 ccgccgccgc caccaccatc agcgcgcgg gcccggccag agcgagccgg gcgagcggcg
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	301	cgctaggggg	agggcggggg	cggggagggg	ggtgggcgaa	gggggcggga	gggcgtgggg
	361	ggagggtctc	gctctcccga	ctaccagagc	ccgagggaga	ccctggcggc	ggcggcggcg
						gtccgaggct	
						gcccggggcg	
5	541	agcctgcggc	gcttccgccc	gcgcccccgc	agggctcccc	ctgcgccgct	gccgccgggg
	601	gctcgggcgc	ctgcggtccg	gcgacggcag	tggctgcagc	gggcacggcc	gaaggaccgg
	661	gaggcggtgg	ctcggcccga	atcgccgtga	agaaagcgca	actacgctcc	gctccgcggg
	721	ccaagaaact	ggagaaactc	ggagtgtact	ccgcctgcaa	ggccgaggag	tcttgtaaat
	781	gtaatggctg	gaaaaaccct	aacccctcac	ccactccccc	cagagccgac	ctgcagcaaa
10	841	taattgtcag	tctaacagaa	tcctgtcgga	gttgtagcca	tgccctagct	gctcatgttt
	901	cccacctgga	gaatgtgtca	gaggaagaaa	tgaacagact	cctgggaata	gtattggatg
	961	tggaatatct	ctttacctgt	gtccacaagg	aagaagatgc	agataccaaa	caagtttatt
	1021	tctatctatt	taagctcttg	agaaagtcta	ttttacaaag	aggaaaacct	gtggttgaag
	1081	gctctttgga	aaagaaaccc	ccatttgaaa	aacctagcat	tgaacagggt	gtgaataact
15	1141	ttgtgcagta	caaatttagt	cacctgccag	caaaagaaag	gcaaacaata	gttgagttgg
	1201	caaaaatgtt	cctaaaccgc	atcaactatt	ggcatctgga	ggcaccatct	caacgaagac
	1261	tgcgatctcc	caatgatgat	atttctggat	acaaagagaa	ctacacaagg	tggctgtgtt
	1321	actgcaacgt	gccacagttc	tgcgacagtc	tacctcggta	cgaaaccaca	caggtgtttg
	1381	ggagaacatt	gcttcgctcg	gtcttcactg	ttatgaggcg	acaactcctg	gaacaagcaa
20	1441	gacaggaaaa	agataaactg	cctcttgaaa	aacgaactct	aatcctcact	catttcccaa
	1501	aatttctgtc	catgctagaa	gaagaagtat	atagtcaaaa	. ctctcccatc	tgggatcagg
	1561	attttctctc	agcctcttcc	agaaccagcc	agctaggcat	ccaaacagtt	atcaatccac
	1621	ctcctgtggc	tgggacaatt	tcatacaatt	caacctcato	ttcccttgag	cagccaaacg
	1681	cagggagcag	cagtectged	tgcaaagcct	cttctggact	tgaggcaaac	ccaggagaaa
25	1741	agaggaaaat	gactgattct	catgttctgg	g aggaggccaa	gaaaccccga	gttatggggg
	1801	atattccgat	ggaattaato	: aacgaggtta	tgtctaccat	cacggaccct	gcagcaatgc
	1861	ttggaccaga	gaccaatttt	ctgtcagcac	acteggeeag	g ggatgaggcg	gcaaggttgg
	1921	aagagcgcag	gggtgtaatt	gaatttcac	g tggttggcaa	a ttccctcaac	cagaaaccaa
	1981	acaagaagat	cctgatgtgg	g ctggttggcd	c tacagaacgt	tttctcccac	cagctgcccc
30	2041	gaatgccaaa	agaatacato	acacggctc	g tetttgace	c gaaacacaaa	accettgett
	2101	taattaaaga	a tggccgtgtt	attggtggt	a tetgtttee	g tatgttccca	tctcaaggat
	2161	. tcacagagat	tgtcttctgt	gctgtaacc	caaatgagc	a agtcaagggc	tatggaacac
	2221	. acctgatgaa	a tcatttgaaa	a gaatatcac	a taaagcatg	a catcctgaac	ttcctcacat
	2281	atgcagatga	a atatgcaatt	ggatacttt:	a agaaacagg	g tttctccaaa	a gaaattaaaa
35	2341	l tacctaaaa	c caaatatgt	t ggctatatc	a aggattatg	a aggagccact	ttáatgggat
	2401	L gtgagctaaa	a tccacggate	c ccgtacaca	g aattttctg	t catcattaaa	a aagcagaagg
	2463	L agataatta	a aaaactgat	t gaaagaaaa	c aggcacaaa	t tcgaaaagtt	taccctggac
	2523	l tttcatgtt	t taaagatgg	a gttcgacag	a ttcctatag	a aagcattcct	ggaattagag
	2583	l agacaggct	g gaaaccgag	t ggaaaagag	a aaagtaaag	a gcccagagad	c cctgaccagc
40	264	l tttacagca	c gctcaagag	c atcctccag	c aggtgaaga	g ccatcaaago	e gettggeeet
	270	1 tcatggaac	c tgtgaagag	a acagaagct	c caggatatt	a tgaagttata	a aggttcccca
							t aagaaattat
							c gctgagagtg
							t aaggaagctg

2941 gattaattga caagtgattt tttttccccc tctgcttctt agaaactcac caagcagtgt 3001 gcctaaagca aggt

The full length protein sequence of the human p300/CBP-associated factor (P/CAF)

5 was obtained from GenBank. Accession No: U57317.2, (SEQ ID NO:2):

```
1 MSEAGGAGPG GCGAGAGAG GPGALPPQPA ALPPAPPQGS PCAAAAGGSG ACGPATAVAA
61 AGTAEGPGGG GSARIAVKKA QLRSAPRAKK LEKLGVYSAC KAEESCKCNG WKNPNPSPTP
121 PRADLQQIIV SLTESCRSCS HALAAHVSHL ENVSEEMNR LLGIVLDVEY LFTCVHKEED
181 ADTKQVYFYL FKLLRKSILQ RGKPVVEGSL EKKPPFEKPS IEQGVNNFVQ YKFSHLPAKE
0 241 RQTIVELAKM FLNRINYWHL EAPSQRRLRS PNDDISGYKE NYTRWLCYCN VPQFCDSLPR
301 YETTQVFGRT LLRSVFTVMR RQLLEQARQE KDKLPLEKRT LILTHFPKFL SMLEEEVYSQ
361 NSPIWDQDFL SASSRTSQLG IQTVINPPPV AGTISYNSTS SSLEQPNAGS SSPACKASSG
421 LEANPGEKRK MTDSHVLEEA KKPRVMGDIP MELINEVMST ITDPAAMLGP ETNFLSAHSA
481 RDEAARLEER RGVIEFHVVG NSLNQKPNKK ILMWLVGLQN VFSHQLPRMP KEYITRLVFD
541 PKHKTLALIK DGRVIGGICF RMFPSQGFTE IVFCAVTSNE QVKGYGTHLM NHLKEYHIKH
601 DILNFLTYAD EYAIGYFKKQ GFSKEIKIPK TKYVGYIKDY EGATLMGCEL NPRIPYTEFS
661 VIIKKQKEII KKLIERKQAQ IRKVYPGLSC FKDGVRQIPI ESIPGIRETG WKPSGKEKSK
721 EPRDPDQLYS TLKSILQQVK SHQSAWPFME PVKRTEAPGY YEVIRFPMDL KTMSERLKNR
781 YYVSKKLFMA DLQRVFTNCK EYNAAESEYY KCANILEKFF FSKIKEAGLI DK
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20

### Results

The P/CAF bromodomain represents an extensive family of bromodomains (Figure 1). A large number of long-range nuclear Overhauser enhancement (NOE)-derived

25 distance restraints were identified in the NMR data of the P/CAF bromodomain, yielding a well-defined three-dimensional structure (Figures 2A -2D). Table 1 shows the NMR chemical shift assignment of the P/CAF bromodomain. Table 2 shows the Unambiguous NOE-derived distance restraints. Table 3 shows the Ambiguous NOE-derived distance restraints. Table 4 shows the Hydrogen bond restraints. The NMR structure coordinates of the P/CAF bromodomain in the free and complexed to acetyl-histamine are shown in Tables 5 and 6, respectively.

The structure consists of a four-helix bundle (helices  $\alpha_Z$ ,  $\alpha_A$ ,  $\alpha_B$ , and  $\alpha_C$ ) with a left-handed twist, and a long intervening loop between helices  $\alpha_Z$  and  $\alpha_A$  (termed the ZA loop, Figure 2E). The four amphipathic  $\alpha$ -helices are packed tightly against one another in an antiparallel manner, with crossing angles for adjacent helices of ~16-20°. The up-and-down four-helix bundle can adapt two topological folds with opposite

ij.

handedness (Figures 2F-2G). The right-handed four-helix bundle fold occurs more commonly and is seen in proteins such as hemerythrin and cytochrome  $b_{562}$ . The left-handed fold of the bromodomain structure is less common, but also observed in proteins such as cytochrome  $b_5$  and T4 lysozyme [Richardson, J., Adv. Protein Chem., 34:167-339 (1989); Presnell and Cohen, Proc. Natl. Acad. Sci. USA 86:6592-6596 (1989)]. This topological difference arises from the orientation of the loop between the first two helices (Fig. 2F-2G). The right-handed four-helix bundle proteins have a relatively short hairpin-like connection between the first two helices, which makes the "preferred" turn to the right at the top of the first helix [Richardson, J., Adv. Protein Chem., 34:167-339 (1989); Presnell and Cohen, Proc. Natl. Acad. Sci. USA 86:6592-10 6596 (1989); Weber and Salemme, Nature 287:82-84 (1980)]. In contrast, proteins with the left-handed fold usually have a long loop after the first helix and often contain additional secondary structural elements at the base of the helix bundle [Richardson, J., Adv. Protein Chem., 34:167-339 (1989); Presnell and Cohen, Proc. Natl. Acad. Sci. 15 USA 86:6592-6596 (1989)]. In the bromodomain structure, this long ZA loop has a defined conformation and is packed against the loop between helices  $\alpha_B$  and  $\alpha_C$  (termed the BC loop) to form a hydrophobic pocket. These tertiary interactions between the two loops appear to favor the left turn of the ZA loop, resulting in the left-handed four-helix bundle fold of the bromodomain. The hydrophobic pocket formed by loops ZA and BC is lined by residues Val752, Ala757, Tyr760, Val763, Tyr802 and Tyr809 (Fig. 2H), and appears to be a site for protein-protein interactions (see below). The pocket is located at one end of the four-helix bundle, opposite to the N- and C-termini of the protein. Interestingly, the ZA loop varies in length amongst different bromodomains, but almost always contains residues corresponding to Phe748, Pro751, Pro758, Tyr760, and Pro767 (Figure 1). The conservation of these residues within the ZA loop as well as residues within the  $\alpha$ -helical regions implies a similar left-handed

The modular bromodomain structure supports the idea that bromodomain can act as a functional unit for protein-protein interactions. The observation that bromodomains are found in nearly all known nuclear HATs (A-type) that are known to promote transcription-related acetylation of histones on specific lysine residues, but not present in cytoplasmic HATs (B-type), prompted the determination of whether bromodomains

four-helix bundle structure for the large family of bromodomains (Fig. 1).

can interact with acetyl-lysine (AcK). The NMR titration of the P/CAF bromodomain were performed with a peptide (SGRGKGG-AcK-GLGK) derived from histone H4, in which Lys8 is acetylated (Lys8 is the major acetylation site in H4 for GCN5, a yeast homologue of P/CAF). Remarkably, the bromodomain could indeed bind the AcK peptide. Moreover, this interaction appeared to be specific, based on the <sup>15</sup>N-HSQC spectra which showed that only a limited number of residues underwent chemical shift changes as a function of peptide concentration (Figure 3A). Conversely, the NMR titration of the bromodomain with a non-acetylated, but otherwise identical H4 peptide, showed no noticeable chemical shift changes, demonstrating that the interaction between the bromodomain and the lysine-acetylated H4 peptide was dependent upon acetylation of lysine. The dissociation constant  $(K_D)$  for the AcK peptide was estimated to be 346  $\pm$  54  $\mu M$ . This binding is likely reinforced through additional interactions between bromodomain-containing proteins and target proteins. Notably, many chromatin-associated proteins contain two or multiple bromodomains (Figure 1). Indeed, binding with another lysine-acetylated peptide (RKSTGG-AcK-APRKQ) derived from the major acetylation site on histone H3 (residues 9-20) was also observed. Together, these data demonstrate that the P/CAF bromodomain has the ability to bind AcK peptides in an acetylation dependent manner.

Intriguingly, the bromodomain residues that exhibited the most significant <sup>1</sup>H and <sup>15</sup>N chemical shift changes on peptide binding are located near the hydrophobic pocket between the ZA and BC loops (Figure 3B). Because a similar pattern of amide chemical shift changes was observed with the two different AcK-containing peptides, it was surmised that the hydrophobic cavity is the primary binding site for AcK. This hypothesis was further supported by titration with acetyl-histamine, which mimics the chemical structure of the AcK side-chain (Figure 3C). Both <sup>15</sup>N- and <sup>13</sup>C-HSQC spectra showed that interaction with acetyl-histamine was also acetylation-dependent, involving the same set of residues that showed chemical shift perturbations with similar concentration dependence. It should be noted that the bromodomain did not bind to the amino acids acetyl-lysine or acetyl-histidine alone, possibly due to the presence of the charged amino, carboxyl, or caboxylate group adjacent to the acetyl moiety (Figure 3C). Taken together, these results strongly suggest that the P/CAF

bromodomain can interact with acetyl-lysine-containing proteins in a specific manner, and that this interaction is localized to the bromodomain hydrophobic cavity.

To identify the key residues involved in bromodomain-AcK recognition, the NMR structure of the P/CAF bromodomain in complex with acetyl-histamine was elucidated. As anticipated, the acetylated moiety binds in the bromodomain hydrophobic pocket (Figure 4). The intermolecular interactions are largely hydrophobic in nature, with the methyl group of acetyl-histamine making extensive contacts with the side-chains of Val752, Ala757, and Tyr760, and the methylene groups of acetyl-histamine displaying specific NOEs to Val752, Ala757, Tyr760, Tyr802, and Tyr809. No intermolecular NOEs were observed for the imidazole ring of acetyl-histamine. From the spectral analysis it is clear that the structure of the bromodomain is very similar in both the free and complex forms.

- It is worth noting that the bromodomain-AcK recognition is reminiscent of the interactions between the histone acetyltransferase Hat1 and acetyl-CoA. Although the binding pockets of these two otherwise structurally unrelated proteins are composed of different secondary structural elements, the nature of acetyl-lysine recognition has striking similarities. In particular, Tyr809, Tyr802, Tyr760, and Val752 in the bromodomain appear to be related to Phe220, Phe261, Val254, and Ile217 of Hat1, respectively, in their interactions with the acetyl moiety. This observation may suggest an evolutionary convergent mechanism of acetyl-lysine recognition between bromodomains and histone acetyltransferases.
- To determine the relative contributions of residues within the hydrophobic cavity in bromodomain-AcK binding, site-directed mutagenesis was used to alter residues Tyr809, Tyr802, Tyr760, and Val752 (Table 7).

Table 7. Structural and Functional Analysis of the P/CAF Bromodomain Mutants

5	Bromodomain Proteins	Structural Integrity <sup>a</sup>	H4 AcK-Peptide Binding $K_{ m D}(\mu{ m M})^{ m b}$
	Wild-Type	++++	346 ± 54
10	Tyr809Ala	++++	No Binding <sup>c</sup>
	Tyr802Ala	+++	> 10,000 <sup>d</sup>
	Tyr760Ala	+++	> 10,000
15	Val752Ala	++	> 10,000

- a. The effects of mutations on the structural integrity of the bromodomain were assessed by using the <sup>15</sup>N-HSQC spectra. The amide <sup>1</sup>H/<sup>15</sup>N resonances of the mutant proteins were compared to those of the wild-type bromodomain to determine if the particular mutations lead to global or local structure disruption. Severe line-broadening of the amide resonances would indicate protein conformational exchange due to a decrease of structure stability resulting from point mutations. Structural integrity of the mutant proteins is expressed here relative to that of the wild-type, using the signs of "++++" for as stable as the wild-type, "+++" for mildly destabilized, "++" for moderately destabilized, and "-" for completely unfolded.
- b. The ligand binding affinity (K<sub>D</sub>) of the bromodomain proteins was estimated by following chemical shift changes of amide peaks in the <sup>15</sup>N-HSQC spectra as a
   function of the ligand concentration.
  - c. No detectable ligand binding observed in the NMR titration.
- d. Ligand binding affinity was significantly reduced and beyond the limit for reliablemeasurements by NMR titration.

lysine.

Substitution of Ala for Tyr809 completely abrogated the bromodomain binding to the lysine-acetylated H4 peptide, while the Tyr802Ala, Tyr760Ala, and Val752Ala mutants had significantly reduced ligand binding affinity. To assess whether these mutations disrupted the overall bromodomain fold, the <sup>15</sup>N-HSQC spectra of the mutants was compared to that of the wild-type protein. For the Tyr809Ala mutant, the amide chemical shifts were only affected for a few residues near the mutation site. However, mutations of the other residues in the hydrophobic binding pocket perturbed the local protein conformation to greater extents, particularly the ZA loop (Table 7). Thus, the NMR structural analysis and the mutagenesis studies show that Tyr809, which is structurally supported by Trp746 and Asn803 (Fiure 4), is essential for the bromodomain interaction with the acetyl group of acetyl-lysine, while residues of Tyr802, Tyr760, and Val752 likely play both structural and functional roles in the recognition. These residues are highly conserved throughout the bromodomain family (Figure 1), suggesting that recognition of acetyl-lysine may be a feature of bromodomains, in general. Therefore, Val752, Ala757, Tyr760, Tyr802, Asn803, and Tyr809 are key amino acid residues for the P/CAF bromodomain binding to acetyl-

Table 8: Amino Acid Sequences of Bromodomains Identified in Figure 1

PROTEIN	SEQ ID	GenBank	PROTEIN	SEQ ID	GenBank
BD	NO:	Acc. No.	BD	NO:	Acc. No.
hsp/CAF	7	U57317	dmFSH-2	25	
hsGCN5	8	U57136	scBDF1-2	26	
ttP55	9	U47321	hsBR140	27	JC2069
scGCN5	10	Q03330	hsSMAP	28	X87613
hsP300	11	A54277	ggPB1-1	29	X90849
hsCBP	12	S39162	ggPB1-2	30	
mmCBP	13	S39161	ggPB1-3	31	
ceYNJ1	14	P34545	ggPB1-4	32	
hsCCG1-1	15	P21675	ggPB1-5	33	
msCCG1-1	16	D26114	spBRO-1	34	S54260
hsCCG1-2	17		spBRO-2	35	
msCCG1-2	18		hsSNF2a	36	S45251
hsRing3-1	19	P25440	hsBRG1	37	S39039
hsORFX-1	20	D26362	ggBRM	38	X91638
dmFSH-1	21	P13709	ggBRG1	39	X91637
scBDF1-1	22	P35817	hsTIF1b	40	X97548
hsRing3-2	23		mmTIF1b	41	X99644
hsORFX-2	24		mmTIF1a	42	S78219

The present invention is not to be limited in scope by the specific embodiments described herein. Indeed, various modifications of the invention in addition to those described herein will become apparent to those skilled in the art from the foregoing description and the accompanying figures. Such modifications are intended to fall within the scope of the appended claims.

It is further to be understood that all base sizes or amino acid sizes, and all molecular weight or molecular mass values, given for nucleic acids or polypeptides are approximate, and are provided for description.

5 Various publications are cited herein, the disclosures of which are hereby incorporated by reference herein in their entireties.

### WHAT IS CLAIMED IS:

- 1 1. An isolated nucleic acid encoding a peptide consisting of about 21 to 40
- 2 amino acids comprising a ZA loop of a bromodomain comprising the amino acid
- 3 sequence of SEQ ID NO:3.
- 1 2. The isolated nucleic acid of Claim 1 further comprising a heterologous
- 2 nucleotide sequence.
- 1 3. An isolated nucleic acid encoding a peptide consisting of about 21 to 40
- 2 amino acids comprising a ZA loop of a bromodomain, wherein the bromodomain has
- 3 an amino acid sequence selected from the group consisting of SEQ ID NOs. 7, 8, 9,
- 4 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32,
- 5 33, 34, 35, 36, 37, 38, 39, 40, 41, and 42.
- 1 4. The isolated nucleic acid of Claim 3 further comprising a heterologous
- 2 nucleotide sequence.
- 1 5. A peptide consisting of about 21 to 40 amino acids comprising a ZA loop of
- 2 a bromodomain comprising the amino acid sequence of SEQ ID NO:3.
- 1 6. A fusion protein or peptide comprising the peptide of Claim 5.
- 1 7. A peptide consisting of about 21 to 40 amino acids comprising a ZA loop of
- 2 a bromodomain, wherein the bromodomain has an amino acid sequence selected from
- 3 the group consisting of SEQ ID NOs. 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20,
- 4 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, and
- 5 42.

- 1 8. A fusion protein or peptide comprising the peptide of Claim 7.
- 1 9. An antibody raised against the peptide of Claim 7 or raised against an
- 2 antigenic fragment thereof.
- 1 10. An antibody raised against the peptide of Claim 5.
- 1 11. A method of identifying a compound that modulates the affinity of a
- 2 bromodomain for a ligand that comprises an acetyl-lysine,
- 3 said method comprising:
- 4 (a) contacting the bromodomain and the ligand in the presence of the
- 5 compound, wherein the bromodomain and the ligand bind in the absence of the
- 6 compound; and
- 7 (b) measuring the affinity of the bromodomain for the ligand; wherein
- 8 a compound is identified as a compound that modulates the affinty of the
- 9 bromodomain for the ligand when there is a change in the affinity of the
- bromodomain for the ligand in the presence of the compound.
  - 1 12. The method of Claim 11, wherein the affinity of the bromodomain for the
  - 2 ligand increases in the presence of the compound and wherein the compound is
  - 3 identified as a bromodomain-ligand complex promoting agent.
  - 1 13. The method of Claim 11, wherein the affinity of the bromodomain for the
  - 2 ligand decreases in the presence of the compound and the compound is identified as an
  - 3 inhibitor.
  - 1 14. The method of Claim 11, wherein the compound is selected by performing
  - 2 rational drug design with the set of atomic coordinates obtained from one or more of

- 3 Tables 1-6, wherein said selecting is performed in conjunction with computer
- 4 modeling.
- 1 15. The method of Claim 11, wherein the compound is selected by performing
- 2 rational drug design with the set of atomic coordinates obtained from a set of atomic
- 3 coordinates defining the three-dimensional structure of a bromodomain consisting of
- 4 the amino acid sequence of SEQ ID NO:7, wherein said selecting is performed in
- 5 conjunction with computer modeling.
- 1 16. A method of identifying a compound that modulates the stability of a
- 2 bromodomain-acetyl-lysine binding complex comprising:
- 3 (a) contacting the bromodomain-acetyl-lysine binding complex in the
- 4 presence of the compound wherein the bromodomain-acetyl-lysine binding complex
- 5 forms in the absence of the compound; and
- 6 (c) measuring the stability of the bromodomain-acetyl-lysine binding
- 7 complex; wherein a compound is identified as a compound that modulates the stability
- 8 of the bromodomain-acetyl-lysine binding complex, when there is a change in the
- 9 stability of the bromodomain-acetyl-lysine binding complex in the presence of the
- 10 compound.
- 1 17. The method of Claim 16, wherein the stability of the bromodomain-acetyl-
- 2 lysine binding complex increases in the presence of the compound and wherein the
- 3 compound is identified as a stabilizing agent.
- 1 18. The method of Claim 16, wherein the stability of the bromodomain-acetyl-
- 2 lysine binding complex decreases in the presence of the compound and the compound
- 3 is identified as an inhibitor.

- 1 19. The method of Claim 16, wherein the compound is selected by performing
- 2 rational drug design with the set of atomic coordinates obtained from one or more of
- 3 Tables 1-6, wherein said selecting is performed in conjunction with computer
- 4 modeling.
- 1 20. The method of Claim 16, wherein the compound is selected by performing
- 2 rational drug design with the set of atomic coordinates obtained from a set of atomic
- 3 coordinates defining the three-dimensional structure of a bromodomain consisting of
- 4 the amino acid sequence of SEQ ID NO:7, wherein said selecting is performed in
- 5 conjunction with computer modeling.
- 1 21. A method of identifying a binding partner for a protein that comprises an
- 2 acetyl-lysine said method comprising:
- 3 (a) contacting the protein with a polypeptide comprising a
- 4 bromodomain; and
- 5 (b) determining whether the polypeptide binds to the protein; wherein
- 6 a binding partner for a protein is identified when polypeptide binds to the protein.
- 1 22. The method of Claim 21 wherein the bromodomain has an amino acid
- 2 sequence from selected from the group consisting of SEQ ID NOs. 7, 8, 9, 10, 11, 12,
- 3 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35,
- 4 36, 37, 38, 39, 40, 41 and 42.
- 1 23. An agent that can inhibit the binding of a bromodomain with a protein
- 2 comprising an acetyl-lysine selected from the group consisting of: ISYGR-AcK-
- 3 KRRQRR (SEQ ID NO:4), ARKSTGG-AcK-APRKQL (SEQ ID NO:5) and
- 4 QSTSRHK-AcK-LMFKTE (SEQ ID NO:6).

## ABSTRACT OF THE INVENTION

The present invention provides the structural determination of a bromodomain determined by NMR spectroscopy. The present invention also provides a binding partner for the bromodomain. In addition, the present invention provides methodology for related drug discovery using high throughput drug screening or structure based rational drug design using the three-dimensional data.

Table 1  NMR Chemical Shift Assignme of the P/CAF Bromodomain	HB2 1.762000 CG 27.630000	HA 4. CB 38 HB1 3 HB2 3 CD1 1: HD1 7	.64000 211000 024000 14.35000 053000 9.481000	CG1 28.733000 HG11 1.748000 HG12 1.052000 CG2 17.168000 HG2# 1.003000 CD1 13.863000 HD1# 0.619000 END_RES_DEF
	HG1 1.681000 CD 43.603000 HD1 3.161000	END_RES_I RES_ID	DEF F	RES_ID 736 RES_TYPE LEU SPIN_SYSTEM_ID 22
RES_ID 715 RES_TYPE GLY SPIN_SYSTEM_ID 1 HETEROGENEITY 100	RES_TYPE SPIN SYSTEM ID	RES_TYPE	SER F EM_ID 16 EITY 100 173000	HETEROGENEITY 100 N 119.880000 HN 8.841000 CA 58.473000
END_RES_DEF  RES_ID 716  RES_TYPE SER  SPIN_SYSTEM_ID 2	N 122.012000 HN 8.273000 CA 52.415000	HA 3.9 HB1 3. END_RES_D	20000 995000	HA 4.090000 CB 41.950000 HB1 2.090000 HB2 1.703000 CG 27.330000
HETEROGENEITY 100 EMD_RES_DEF  RES_ID 717	HA 4.874000 CB 41.400000 HB1 2.754000 HB2 2.692000 END_RES_DEF	RES_ID RES_TYPE SPIN_SYST HETEROGEN N 120.	EITY 100	HG 1.759000 CD1 26.530000 HD1# 1.061000 CD2 23.776000
RES_TYPE HIS SPIN_SYSTEM_ID 3 HETEROGENEITY 100 END_RES_DEF	RES_TYPE P SPIN_SYSTEM_ID 1	725 HN 8.0 CA 66. PRO HA 3.9 11 CB 68.	59000 E 730000 24000 R 930000 R	HD2# 0.977000 ND_RES_DEF ES_ID 737 ES_TYPE GLN
RES_ID 718 RES_TYPE MET SPIN_SYSTEM_ID 4 HETEROGENEITY 100 END_RES_DEF	CA 65.080000 HA 4.329000 CB 32.590000 HB1 2.326000	.000 HB 4.2 CG2 21 HG2# 1 END_RES_D	17000 Si .570000 HI	PIN SYSTEM ID 23 ETEROGENEITY 100 N 117.256000 HN 8.505000 CA 59.020000
RES_ID 719 RES_TYPE SER SPIN_SYSTEM_ID 5 HETEROGENEITY 100 END_RES_DEF	HB2 1.973000 CG 27.632000 HG1 2.028000 CD 51.310000 HD1 3.866000 END_RES_DEF	RES_ID RES_TYPE SPIN_SYSTI HETEROGENI N 120.2 HN 8.44	31TY 100	HA 4.032000 CB 28.182000 HB1 2.327000 HB2 2.263000 CG 34.240000
RES_ID 720 RES_TYPE LYS SPIN_SYSTEM_ID 6 HETEROGENEITY 100	RES_TYPE A SPIN_SYSTEM_ID 1: HETEROGENEITY 1:	CA 57.9 26 HA 3.28 SP CB 39.7	20000 9000 EN 50000 32000 RE	HG1 2.536000 HG2 2.461000 ND_RES_DEF CS_ID 738 SS_TYPE GIN
CA 55.296000 HA 4.361000 CB 33.140000 HB1 1.8822000 HB2 1.6844000 CG 25.430000 HG2 1.585000 HG2 1.433000	N 119.716000 HN 8.397000 CA 55.720000 HA 4.692000 CB 40.550000 HB1 2.792000 HB2 2.730000 END_RES_DEF	CG 24.8 HG 1.68 CD1 25. HD1# 0. CD2 19. HD2# -0 END_RES_DE	80000 SP 3000 HE 429000 469000 921000 .193000	STYPE GLN 24 100 ETEROGENEITY 100 N 118.896000 CA 59.574000 CA 59.574000 CB 29.835000 HB1 2.482000
CD 29.834000 HD1 1.703000 CE 41.960000 HEI 3.003000 END_RES_DEF	RES_ID 72 RES_TYPE GE SPIN_SYSTEM_ID 13 HETEROGENEITY 10 N 121.356000 HN 8.196000 CA 55.920000	HETEROGENE	733 LYS M_ID 19 ITY 100 68000 3000	HB2 2.469000 CG 35.342000 HG1 2.840000 HG2 2.467000 NE2 110.369000 HE21 7.022000 HE22 6.916000
RES_TYPE GLU SPIN_SYSTEM_ID 7 HHTERGGENEITY 1000 N 122.990000 HN 8.317000 CA 54.620000 HA 4.540000 CB 29.830000 HB1 2.024000 HB2 1.893000 CG 35.893000 HG1 2.271000	HA 4.163000 CB 28.730000 HB1 2.148000 CG 34.240000 HG1 2.524000 HG2 2.371000 END_RES_DEF  RES_ID 72 RES_TYPE LE SPIN_SYSTEM_ID 14 HETEROGENEITY 10	CB 32.5 HB1 1.7: HB2 1.3: CG 24.8: HG1 1.2: CD 29.8: HD1 1.5: CE 41.9: 8 HE1 2.9: U END_RES_DER	38000 RE: 39000 RE: 30000 RE: 30000 SP: 30000 HE: 35000 HE: 3500 HE: 35000 HE: 35000 HE: 35000 HE: 35000 HE: 35000 HE: 35000 H	D_RES_DEF  S_ID 739 S_TYPE VAL IN_SYSTEM_ID 25 FERCCENEITY 100 N 119.716000 CA 67.830000 CA 67.830000 HA 3.844000 CE 32.030000 HB 2.3344000 CE 32.034000
END_RES_DEF  RES_ID 722 RES_TYPE PRO SPIN_SYSTEM_ID 8 HETEROGENEITY 100 CA 63.430000 HA 4.393000 CB 32.030000 HB1 2.224000	N 121.356000 HN 8.210000 CA 58.473000 HA 4.045000 CB 41.400000 HB1 1.847000 HB2 1.555000 CG 27.080000 HG 1.480000	RES_TYPE SPIN_SYSTEM HETEROGENEI N 113.15 HN 7.540 CA 61.22 HA 4.281 CB 63.87 HB1 4.06	SER H  ID 20 C  TY 100 H  7000 END  7000 RES  9000 SPI	CG1 23.330000 IGG# 1.183000 IGG2 22.120000 IGG2# 1.033000  D.RES_DEF  ID 740  ITVE LYS  INSYSTEM_ID 26  FERGGENEITY 100
HB2 1.880000 CG 27.630000 HG1 2.028000 CD 50.760000 HD2 3.656000 HD1 3.800000 END_RES_DEF	CD1 25.970000 HD1# 0.794000 CD2 23.226000 HD2# 0.786000 END_RES_DEF  RES_ID 729 RES_TYPE TYR	END_RES_DEF  RES_ID  RES_TYPE  SPIN_SYSTEM  HETEROGENEI  N 120.70	N H 735 C H ILE H I C C T Y 100 H 10000 H	114.633000 N. 8.572000 N. 59.574000 N. 3.886000 B. 32.380000 Bl. 1.873000 G1 1.022000
RES_ID 723 RES_TYPE ARG SPIN_SYSTEM_ID 9	SPIN SYSTEM ID 15 HETEROGENEITY 100 N 119.060000 HN 8.021000	CA 65.08	0000 END 000 RES	D1 1.520000 _RES_DEF _ID 741 _TYPE SER

SPIN_SYSTEM ID 27	RES_TYPE PRO	END_RES_DEF	on
HETEROGENEITY 100	SPIN_SYSTEM_ID 33	PUD_KES_DEF	CB 39.750000 HB1 2.689000
N 110.369000	HETEROGENEITY 100	RES ID 753	HB2 2.487000
HN 7.557000	CA 64.531000	RES TYPE LYS	CD1 133.799000
CA 59.024000	HA 3.756000	SPIN_SYSTEM_ID 39	HD1 5.120000
HA 4.448000 CB 63.980000	CB 29.835000	HETEROGENEITY 100	CE1 118.379000
HB1 4.004000	HB1 0.487000	N 129.883000	HE1 6.070000
END_RES_DEF	HB2 -0.783000	HN 9.045000	END_RES_DEF
22.1.00_22.	CG 26.530000 HG1 0.233000	CA 56.310000	
RES_ID 742	HG2 -0.931000	HA 4.370000	RES_ID 761
RES_TYPE HIS	CD 50.212000	CB 32.880000	RES_TYPE TYR
SPIN_SYSTEM_ID 28	HD2 1.567000	HB1 1.873000 HG1 1.435000	SPIN_SYSTEM_ID 47
HETEROGENEITY 100	HD1 2.177000	HD1 1.673000	HETEROGENEITY 100
N 125.619000	END_RES_DEF	HE1 2.985000	N 113.157000 HN 8.225000
HN 7.536000		END_RES_DEF	CA 60.676000
CA 58.473000	RES_ID 748		HA 4.101000
HA 3.967000	RES_TYPE PHE	RES_ID 754	CB 37.550000
CB 32.588000 HB1 2.990000	SPIN_SYSTEM_ID 34	RES_TYPE ARG	HB1 3.189000
HB2 2.799000	HETEROGENEITY 100	SPIN_SYSTEM_ID 40	HB2 2.801000
CD2 118.930000	N 113.321000 HN 7.585000	HETEROGENEITY 100	CD1 134.901000
HD2 4.978000	CA 55.719000	N 120.208000	HD1 7.342000
*CE1 138.755000	HA 4.930000	HN 8.054000 END_RES_DEF	CE1 118.930000
HE1 7.522000	CB 39.202000	END_RES_DEF	HE1 6.646000
END_RES_DEF	. HB1 3.491000	RES_ID 755	END_RES_DEF
	HB2 2.532000	RES TYPE THR	RES ID 762
RES_ID 743	CD1 133.248000	SPIN_SYSTEM ID 41	RES_TYPE GLU
RES_TYPE GLN	HD1 7.099000	HETEROGENEITY 100	SPIN_SYSTEM_ID 48
SPIN_SYSTEM_ID 29 HETEROGENEITY 100	HE1 7.174000	CA 63.430000	HETEROGENEITY 100
HETEROGENEITY 100 N 128.571000	HZ 7.296000	HA 4.038000	N 117.912000
HN 8.543000	END_RES_DEF	CB 68.380000	HN 7.702000
CA 59.125000	RES_ID 749	HB 4.293000	CA 57.922000
HA 4.209000	RES_TYPE MET	CG2 22.670000	HA 4.209000
CB 29.834000	SPIN SYSTEM ID 35	HG2# 1.267000	CB 29.480000
HB1 2.111000	HETEROGENEITY 100	END_RES_DEF	HB1 2.086000
CG 33.690000	N 117.748000	RES_ID 756	CG 37.545000
HG1 2.390000	HN 7.115000	RES TYPE GLU	HG1 2.325000
NE2 112.173000	CA 56.820000	SPIN SYSTEM ID 42	HG2 2.265000 END_RES_DEF
HE21 7.581000	HA 4.286000	HETEROGENEITY 100	END_RES_DEF
HE22 6.870000	CB 32.590000	N 118.732000	RES ID 763
END_RES_DEF	HB1 2.233000	HN 7.209000	RES TYPE VAL
RES_ID 744	HB2 2.174000	CA 56.270000	SPIN_SYSTEM_ID 49
RES_TYPE SER	CG 33.140000 HG1 2.851000	HA 4.448000	HETEROGENEITY 100
SPIN SYSTEM ID 30	CE 17.168000	CB 30.930000	N 115.453000
HETEROGENEITY 100	HE# 2-175000	HB1 2.174000	HN 7.135000
N 119.060000	END_RES_DEF	HB2 2.000000 CG 36.440000	CA 63.430000
HN 11.668000	<u> </u>	HG1 2.292000	HA 4.077000 CB 33.690000
CA 60.125000	RES_ID 750	END_RES_DEF	CB 33.690000 HB 2.015000
HA 4.838000	RES_TYPE GLU	=	CG1 21.020000
CB 63.980000	SPIN_SYSTEM_ID 36	RES_ID 757	HG1# 1.045000
HB1 4.334000	HETEROGENEITY 100	RES_TYPE ALA	CG2 21.574000
HB2 3.926000 END_RES_DEF	N 113.813000	SPIN_SYSTEM_ID 43	HG2# 0.991000
242_445_546	HN 7.709000 CA 53.516000	HETEROGENEITY 100	END_RES_DEF
RES ID 745	CA 53.516000 HA 4.849000	N 122.504000	
RES_TYPE ALA	CB 31.487000	HN 7.379000 CA 50.220000	RES_ID 764
SPIN_SYSTEM_ID 31	HB1 2.091000	HA 4.937000	RES_TYPE ILE
HETEROGENEITY 100	HB2 1.730000	CB 19.370000	SPIN_SYSTEM_ID 50 HETEROGENEITY 100
N 117.584000	CG 35.893000	HB# 1.082000	N 122.832000
HN 7.868000	HGl 2.164000	END_RES_DEF	HN 7.947000
CA 53.510000 HA 4.396000	END_RES_DEF		CA 57.920000
CB 20.470000	DEC ID DES	RES_ID 758	HA 3.916000
HB# 1.688000	RES_ID 751 RES_TYPE PRO	RES_TYPE PRO	CB 34.240000
END_RES_DEF	RES_TYPE PRO SPIN SYSTEM ID 37	SPIN_SYSTEM_ID 44 HETEROGENEITY 100	HB 1.205000
	HETEROGENEITY 100	HETEROGENEITY 100 CA 65.080000	CG1 24.878000
RES_ID 746	CA 62.879000	HA 4.496000	HG11 0.798000 HG12 0.216000
RES_TYPE TRP	HA 4.242000	CB 31.487000	CG2 16.617000
SPIN_SYSTEM_ID 32	CB 32.040000	HB1 2.374000	HG2# 0.380000
HETEROGENEITY 100 N 116.600000	HB1 2.328000	HB2 2.027000	CD1 9.457000
HN 7.135000	HB2 1.683000	CG 27.632000	HD1# 0.537000
CA 60.691000	CG 27.080000	HG1 2.122000	END_RES_DEF
HA 4.368000	HG1 2.126000	HG2 2.038000	_ <del>_</del>
CB 27.630000	HG2 1.978000 CD 50.763000	CD 50.212000	RES_ID 765
HB1 3.594000	HD1 3.670000	HD2 3.515000 HD1 3.717000	RES_TYPE ARG
HB2 3.351000	END_RES_DEF	END_RES_DEF	SPIN_SYSTEM_ID 51
CD1 128.843000			HETEROGENEITY 100 N 125.291000
HD1 7.897000	RES_ID 752	RES_ID 759	HN 7.749000
NE1 110.861000	RES_TYPE VAL	RES_TYPE GLY	CA 57.371000
HE1 10.474000 CE3 122.234000	SPIN_SYSTEM_ID 38	SPIN_SYSTEM_ID 45	HA 3.875000
HE3 7.336000	HETEROGENEITY 100	HETEROGENEITY 100	CB 30.936000
CZ2 116.177000	N 124.450000 HN 8.124000	END_RES_DEF	HB1 1.388000
HZ2 7.382000	CA 63.430000	DEC ID	HB2 1.211000
CZ3 123.336000	HA 3.553000	RES_ID 760 RES_TYPE TYR	CG 27.080000
HZ3 7.197000	CB 32.580000	RES_TYPE TYR SPIN_SYSTEM_ID 46	HG1 1.319000
CH2 126.089000	HB 1.145000	HETEROGENEITY 100	HG2 1.173000 CD 43.052000
HH2 7.150000	CG1 21.573000	N 122.504000	HD1 2.971000
END_RES_DEF	HG1# 0.464000	HN 7.945000	END_RES_DEF
DEC ID 347	CG2 21.573000	CA 62.328000	
RES_ID 747			 RES_ID 766

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RES_TYPE SER	END_RES_DEF	OD1 25 100000	
SPIN_SYSTEM_ID 52	2112_1120_226	CD1 25.429000 HD1# 1.067000	SPIN_SYSTEM_ID 69
HETEROGENEITY 100	RES ID 772	CD2 27.081000	HETEROGENEITY 100
N 116.600000	RES TYPE THR	HD2# 0.871000	N 115.780000
HN 8.387000	SPIN_SYSTEM_ID 58	END_RES_DEF	HN 7.698000 CA 62.330000
CA 54.618000	HETEROGENEITY 100		HA 4.083000
HA 4.984000	N 122.176000	RES_ID 778	CB 31.500000
CB 38.640000	HN 9.445000	RES_TYPE LYS	HB 2.321000
HB1 3.034000 HB2 2.907000	CA 67.040000	SPIN_SYSTEM_ID 64	CG1 21.570000
END_RES_DEF	HA 3.845000	HETEROGENEITY 100	HG1# 0.944000
	CB 67.835000 HB 4.090000	N 120.372000	CG2 18.820000
RES ID 767	HB 4.090000 CG2 22.124000	HN 7.958000	HG2# 0.823000
RES_TYPE PRO	HG2# 1.058000	CA 59.574000	END_RES_DEF
SPIN_SYSTEM_ID 53	END_RES DEF	HA 4.333000 CB 32.588000	
HETEROGENEITY 100		HB1 2.055000	RES_ID 784
CA 63.429000	RES_ID 773	CG 24.878000	RES_TYPE SER SPIN_SYSTEM ID 70
HA 4.083000	RES_TYPE MET	HG1 1.596000	HETEROGENEITY 100
CB 32.588000	SPIN_SYSTEM_ID 59	CD 29.835000	N 111.353000
HB1 2.209000 CG 28.180000	HETEROGENEITY 100	HD1 1.804000	HN 7.415000
HG1 2.177000	N 117.912000	CE 41.951000	CA 55.719000
HG2 1.883000	HN 7.882000	HE1 2.990000	HA 4.741000
*CD 50.763000	CA 60.676000 HA 4.319000	END_RES_DEF	CB 66.183000
HD2 3.390000	HA 4.319000 CB 33.342000	DEG TO SEC	HB1 4.200000
HD1 3.623000	HB1 2.093000	RES_ID 779	HB2 3.750000
END_RES_DEF	HB2 1.915000	RES_TYPE ASN SPIN_SYSTEM_ID 65	END_RES_DEF
	CG 33.139000	SPIN_SYSTEM_ID 65 HETEROGENEITY 100	DDG 1D
RES_ID 768	HG1 2.621000	N 116.108000	RES_ID 785
RES_TYPE MET	HG2 2.496000	HN 7.947000	RES_TYPE LYS SPIN_SYSTEM_ID 71
SPIN_SYSTEM_ID 54	CE 16.620000	CA 53.510000	SPIN_SYSTEM_ID 71 HETEROGENEITY 100
HETEROGENEITY 100	HE# 1.241000	HA 4.771000	CA 59.030000
N 119.060000	END_RES_DEF	CB 38.095000	HA 4.021000
HN 8.430000		HB1 3.019000	CB 31.590000
CA 54.067000 HA 4.935000	RES_ID 774	HB2 2.773000	END_RES_DEF
CB 31.487000	RES_TYPE SER	ND2 112.665000	<b>-</b> -
HB1 1.989000	SPIN_SYSTEM_ID 60	HD21 7.598000	RES_ID 786
HB2 1.353000	HETEROGENEITY 100 N 116.108000	HD22 6.969000	RES_TYPE LYS
CG 30.930000	HN 7.958000	END_RES_DEF	SPIN_SYSTEM_ID 72
HG1 2.690000	CA 62.879000	RES_ID 780	HETEROGENEITY 100
CE 14.414000	HA 4.200000	RES_ID 780 RES_TYPE ARG	N 120.208000
HE# 1.929000	CB 62.879000	SPIN_SYSTEM_ID 66	HN 8.244000 CA 59.720000
END_RES_DEF	HB1 4.368000	HETEROGENEITY 100	HA 4.062000
200	HB2 4.040000	N 114.141000	CB 30.385000
RES_ID 769	END_RES_DEF	HN 8.158000	HB1 1.779000
RES_TYPE ASP SPIN SYSTEM ID 55	_1	CA 56.821000	CG 24.530000
SPIN_SYSTEM_ID 55 HETEROGENEITY 100	RES_ID 775	HA 4.405000	CD 28.182000
N 119.060000	RES_TYPE GLU	CB 25.429000	HD1 1.680000
HN 7.365000	SPIN_SYSTEM_ID 61 HETEROGENEITY 100	HB1 2.097000	CE 41.670000
CA 53.516000	HETEROGENEITY 100 N 124.471000	HB2 2.022000	HE1 3.137000
HA 4.745000	HN 8.150000	CG 27.632000	HE2 3.045000
CB 44.154000	CA 59.570000	HG1 1.539000 HG2 1.534000	END_RES_DEF
HB1 2.371000	HA 4.045000	CD 43.050000	DEC ID TOT
END_RES_DEF	CB 29.280000	HD1 3.060000	RES_ID 787 RES TYPE LEU
	HB1 2.246000	HD2 3.024000	SPIN SYSTEM ID 73
RES_ID 770	HB2 2.063000	END_RES_DEF	HETEROGENEITY 100
RES_TYPE LEU	CG 36.443000		N 118.732000
SPIN_SYSTEM_ID 56 HETEROGENEITY 100	HG1 2.345000	RES_ID 781	HN 7.422000
N 116.272000	HG2 2.176000	RES_TYPE TYR	CA 57.922000
HN 9.055000	END_RES_DEF	SPIN_SYSTEM_ID 67	HA 4.213000
CA 57.922000	RES_ID 776	HETEROGENEITY 100	CB 43.603000
HA 4.036000	RES_TYPE ARG	N 116.764000 HN 8.222000	HB1 1.996000
CB 41.400000	SPIN_SYSTEM ID 62	CA 60.125000	HB2 1.891000
HB1 2.095000	HETEROGENEITY 100	HA 4.064000	CG 27.632000 HG 1.794000
HB2 1.395000	N 120.372000	CB 40.850000	CD1 25.979000
CG 27.080000 HG 1.713000	HN 8.391000	HB1 2.948000	HD1# 0.924000
CD1 27.080000	CA 60.676000	HB2 2.055000	CD2 23.776000
HD1# 0.940000	HA 3.869000 CB 30.385000	CD1 134.350000	HD2# 0.895000
CD2 22.675000	HB1 2.047000	HD1 6.285000 `	END_RES_DEF
HD2# 0.628000	HB2 1.076000	CE1 118.930000 HE1 6.709000	
END_RES_DEF	CG 29.284000		RES_ID 788
	HG1 1.722000	end_res_def	RES_TYPE PHE
RES_ID 771	HG2 0.877000	RES ID 782	SPIN_SYSTEM_ID 74 HETEROGENEITY 100
RES_TYPE LYS	CD 44.154000	RES TYPE TYR	HETEROGENEITY 100 N 118.732000
SPIN_SYSTEM_ID 57	HD1 2.578000	SPIN_SYSTEM_ID 68	HN 6.928000
HETEROGENEITY 100 N 128.079000	HD2 2.051000	HETEROGENEITY 100	CA 60.676000
HN 8.738000	END_RES_DEF	N 114.633000	HA 3.763000
CA 60.676000	DEC ID	HN 8.014000	CB 39.750000
HA 4.198000	RES_ID 777 RES_TYPE LEU	CA 57.920000	HB1 2.945000
CB 32.037000	RES_TYPE LEU SPIN_SYSTEM_ID 63	HA 4.528000	HB2 2.381000
HB1 2.330000	HETEROGENEITY 100	CB 36.443000 HB1 3.062000	CD1 133.799000
HB2 2.224000		HB2 2.907000	HD1 6.400000
	N 120.208000		
CG 25.280000	N 120.208000 HN 8.856000		CE1 131.596000
CG 25.280000 HG1 1.483000		CD1 133.248000	HE1 6.928000
CG 25.280000 HG1 1.483000 HG2 1.403000	HN 8.856000 CA 58.470000 HA 4.691000	CD1 133.248000 HD1 7.175000	
CG 25.280000 HG1 1.483000 HG2 1.403000 CD 30.385000	HN 8.856000 CA 58.470000 HA 4.691000 CB 42.621000	CD1 133.248000	HE1 6.928000 END_RES_DEF
CG 25.280000 HG1 1.483000 HG2 1.403000 CD 30.385000 HD1 1.793000	HN 8.856000 CA 58.470000 HA 4.691000 CB 42.621000 HB1 2.295000	CD1 133.248000 HD1 7.175000 CE1 120.582000	HE1 6.928000 END_RES_DEF RES_ID 789
CG 25.280000 HG1 1.483000 HG2 1.403000 CD 30.385000 HD1 1.793000 HD2 1.696000	HN 8.856000 CA 58.470000 HA 4.691000 CB 42.621000 HB1 2.295000 HB2 1.925000	CD1 133.248000 HD1 7.175000 CE1 120.582000 HE1 7.286000 END_RES_DEF	HE1 6.928000 END_RES_DEF
CG 25.280000 HG1 1.483000 HG2 1.403000 CD 30.385000 HD1 1.793000 HD2 1.696000 CE 41.950000	HN 8.856000 CA 58.470000 HA 4.691000 CB 42.621000 HB1 2.295000 HB2 1.925000 CG 27.080000	CD1 133.248000 HD1 7.175000 CE1 120.582000 HE1 7.286000 END_RES_DEF RES_ID 783	HE1 6.928000 END_RES_DEF  RES_ID 789 RES_TYPE MET
CG 25.280000 HG1 1.483000 HG2 1.403000 CD 30.385000 HD1 1.793000 HD2 1.696000	HN 8.856000 CA 58.470000 HA 4.691000 CB 42.621000 HB1 2.295000 HB2 1.925000	CD1 133.248000 HD1 7.175000 CE1 120.582000 HE1 7.286000 END_RES_DEF	HE1 6.928000 END_RES_DEF  RES_ID 789 RES_TYPE MET SPIN_SYSTEM_ID 75

HN 8.489000	HETEROGENEITY 100	HETEROGENEITY 100	CDIN CHOMPN IN
CA 59.020000	N 117.912000	N 117.912000	SPIN_SYSTEM_ID 94
HA 3.911000	HN 7.013000	HN 7.945000	HETEROGENEITY 100
CB 32 590000	CA 66.730000	CA 57.992000	N 123.488000
HB1 2.318000	HA 3.039000	HA 4.250000	HN 9.061000 CA 59.574000
HB2 2.208000	CB 30.930000	CB 30.385000	HA 4.232000
CG 33.140000	HB 1.435000	HB1 2.172000	CB 29.835000
HG1 2.942000	CG1 22.124000	HB2 2.003000	HB1 2.169000
HG2 2.611000	HG1# 0.479000	CG 36.994000	CG 36.443000
CE 17.168000	CG2 21.573000	HG1 2.407000	HG1 2.528000
HE# 2.027000	HG2# 0.142000	HG2 2.203000	END_RES_DEF
END_RES_DEF	END_RES_DEF	END_RES_DEF	
RES ID 790	RES ID 796		RES_ID 809
RES_TYPE ALA	RES_ID 796 RES_TYPE PHE	RES_ID 802	RES_TYPE TYR
SPIN SYSTEM ID 76	SPIN_SYSTEM ID 82	RES_TYPE TYR	SPIN_SYSTEM_ID 95
HETEROGENEITY 100	HETEROGENEITY 100	SPIN_SYSTEM_ID 88	HETEROGENEITY 100
N 119.716000	N 116.928000	HETEROGENEITY 100	N 116.436000
HN 8.000000	HN 6.357000	N 116.600000 HN 7.744000	HN 8.072000
CA 55.170000	CA 58.470000	CA 60.676000	CA 60.120000
HA 4.084000	HA 4.161000	HA 4.369000	HA 3.834000
CB 18.270000	CB 38.096000	CB 41.400000	CB 37.550000
HB# 1.485000	HB1 3.090000	HB1 2.929000	HB1 3.018000
END_RES_DEF	HB2 2.944000	CD1 134.901000	HB2 2.738000 CD1 132.698000
	CD1 132.147000	HD1 6.989000	HD1 6.891000
RES_ID 791	HD1 6.641000	CE1 119.481000	CE1 120.032000
RES_TYPE ASP	CE1 131.596000	HE1 6.823000	HE1 7.011000
SPIN_SYSTEM_ID 77	HE1 6.456000	END_RES_DEF	END_RES_DEF
HETEROGENEITY 100	CZ 129.393000		
N 119.716000	HZ 6.406000	RES_ID 803	RES ID 810
HN 7.376000 CA 57.371000	END_RES_DEF	RES_TYPE ASN	RES_TYPE TYR
HA 4.371000	D70 ID	SPIN_SYSTEM_ID 89	SPIN SYSTEM ID 96
CB 38.646000	RES_ID 797	HETEROGENEITY 100	HETEROGENEITY 100
HB1 2.730000	RES_TYPE THR	N 115.944000	N 119.880000
END RES DEF	SPIN_SYSTEM_ID 83 HETEROGENEITY 100	HN 8.241000	HN 7.356000
	HETEROGENEITY 100 N 115.289000	CA 51.864000	CA 61.777000
RES_ID 792	HN 9.047000	HA 5.024000	HA 3.819000
RES_TYPE LEU	CA 66.734000	CB 40.849000 HB1 3.069000	CB 40.300000
SPIN_SYSTEM_ID 78	HA 3.838000		HB1 3.390000
HETEROGENEITY 100	CB 68.380000	HB2 2.907000 ND2 118.732000	HB2 2.500000
N 119.550000	HB 4.210000	HD21 8.316000	CD1 136.553000 HD1 7.094000
HN 7.363000	CG2 22.120000	HD22 7.809000	CE1 119.481000
CA 57.922000 HA 3.398000	HG2# 1.296000	END_RES_DEF	HE1 7.000000
HA 3.398000 CB 40.299000	END_RES_DEF		END_RES DEF
HB1 0.757000	RES_ID 798	RES_ID 804	
HB2 0.442000	RES TYPE ASN	RES_TYPE ALA	RES_ID 811
CG 27.632000	SPIN_SYSTEM_ID 84	SPIN_SYSTEM_ID 90	RES_TYPE LYS
HG 0.707000	HETEROGENEITY 100	HETEROGENEITY 100 END_RES_DEF	SPIN_SYSTEM_ID 97
CD1 24.327000	N 120.700000	2KB_KBS_BEF	HETEROGENEITY 100
HD1# 0.184000	HN 8.846000	RES ID 805	N 118.076000 HN 8.072000
CD2 25.979000	CA 55.170000	RES_TYPE PRO	CA 60.676000
HD2# 0.061000	HA 4.315000	SPIN_SYSTEM_ID 91	HA 4.204000
END_RES_DEF	CB 38.090000	HETEROGENEITY 100	CB 32.588000
RES ID 793	HB1 2.985000	CA 63.980000	HB1 2.091000
RES TYPE GLN	HB2 2.661000 END_RES_DEF	HA 2.422000	CG 25.979000
SPIN_SYSTEM ID 79	2112_113_221	HB1 1.949000 HG1 1.648000	HG1 1.819000
HETEROGENEITY 100	RES ID 799	HG1 1.648000 HG2 1.558000	HG2 1.582000
N 114.141000	RES_TYPE CYS	CD 50.762000	CD 29.834000 HD1 1.813000
HN 8.069000	SPIN_SYSTEM_ID 85	HD2 3.601000	CE 41.963000
CA 59.024000 HA 3.804000	HETEROGENEITY 100	HD1 3.706000	HE1 2.962000
CB 28.733000	N 116.928000	END_RES_DEF	END_RES_DEF
HB1 2.157000	HN 6.893000		
HB2 2.097000	CA 62.157000 HA 4.405000	RES_ID 806	RES_ID 812
CG 35.342000	CB 26.530000	RES_TYPE GLU SPIN_SYSTEM ID 92	RES_TYPE CYS
HG1 2.460000	HB1 3.304000	SPIN_SYSTEM_ID 92 HETEROGENEITY 100	SPIN_SYSTEM_ID 98
NE2 111.353000	HB2 3.032000	N 112.993000	HETEROGENEITY 100 N 116.764000
HE21 7.319000	END_RES_DEF	HN 8.246000	HN 8.520000
HE22 7.222000		CA 56.820000	CA 65.087000
END_RES_DEF	RES_ID 800	HA 4.185000	HA 4.202000
RES_ID 794	RES_TYPE LYS SPIN_SYSTEM ID 86	CB 28.733000	CB 27.080000
RES_TYPE ARG	HETEROGENEITY 100	HB1 2.095000	HB1 3.396000
SPIN_SYSTEM_ID 80	N 116.764000	HB2 1.973000 CG 36.270000	HB2 3.056000
HETEROGENEITY 100	HN 7.799000	HG1 2.200000	END_RES_DEF
N 118.568000	CA 58.473000	END RES DEF	RES_ID 813
HN 7.382000	HA 4.204000	<del>-</del>	RES_TYPE ALA
CA 58.473000	CB 32.588000	RES_ID 807	SPIN_SYSTEM ID 99
HA 4.078000 CB 29.835000	HB1 1.743000	RES_TYPE SER	HETEROGENEITY 100
HB1 1.973000	CG 25.429000	SPIN_SYSTEM_ID 93	N 120.700000
HB2 1.886000	HG1 1.313000 HG2 0.138000	HETEROGENEITY 100	HN 8.315000
CG 27.080000	CD 29.835000	N 115.780000 HN 8.112000	CA 55.563000
HG1 1.742000	HD1 1.291000	CA 58.473000	HA 3.834000
CD 43.603000	CE 41.400000	HA 4.406000	CB 18.270000 HB# 1.597000
HD1 3.390000	HE1 2.486000	CB 66.183000	END_RES_DEF
HD2 3.325000	HE2 2.421000	HB1 4.393000	
END_RES_DEF	END_RES_DEF	HB2 4.157000	RES_ID 814
RES ID 795	DEC ID	END_RES_DEF	RES_TYPE ASN
RES_TYPE VAL	RES_ID 801 RES_TYPE GLU	pre in	SPIN_SYSTEM_ID 100
SPIN_SYSTEM_ID 81	SPIN_SYSTEM_ID 87	RES_ID 808 RES_TYPE GLU	HETEROGENEITY 100
		RES_TYPE GLU	N 115.453000

HN 8.068000	770 77	
	RES_ID 820	HB1 1.879000
CA 56.270000	RES_TYPE PHE	HB2 1.757000
HA 4.329000	SPIN_SYSTEM_ID 106	CG 24.878000
CB 38.646000	HETEROGENEITY 100	HG1 1.390000
HB1 2.877000	N 120.700000	HG2 1.302000
HB2 2.834000	HN 9.126000	
END RES DEF	CA 60.691000	CD 29.284000
		HD1 1.633000
RES ID 815	HA 3.961000	CE 41.400000
	CB 38.640000	HE1 2.913000
RES_TYPE ILE	HB1 3.289000	END_RES_DEF
SPIN_SYSTEM_ID 101	HB2 3.067000	
HETEROGENEITY 100	CD1 133.248000	RES ID 826
N 119.880000	HD1 6.904000	
HN 7.912000	CE1 132.698000	
CA 65.080000		SPIN_SYSTEM_ID 112
HA 3.646000	HE1 7.011000	HETEROGENEITY 100
	END_RES_DEF	N 121.192000
CB 39.197000		HN 8.063000
HB 1.924000	RES_ID 821	CA 59.024000
CG1 29.284000	RES_TYPE PHE	HA 3.995000
HG11 1.882000	SPIN_SYSTEM_ID 107	
HG12 1.201000	HETEROGENEITY 100	CB 29.834000
CG2 17.718000		HB1 2.058000
HG2# 1.017000	N 118.076000	CG 36.050000
	HN 8.359000	HG1 2.342000
CD1 13.863000	CA 61.770000	HG2 2.205000
HD1# 0.940000	HA 3.840000	END_RES_DEF
END_RES_DEF	CB 38.090000	
	HB1 3.064000	DEC ID 000
RES_ID 816	CD1 133.248000	RES_ID 827
RES TYPE LEU	HD1 7.175000	RES_TYPE ALA
SPIN_SYSTEM_ID 102		SPIN_SYSTEM_ID 113
	CE1 132.698000	HETEROGENEITY 100
HETEROGENEITY 100	HE1 7.294000	N 117.748000
N 122.504000	CZ 131.596000	HN 7.620000
HN 8.556000	HZ 7.430000	CA 52.410000
CA 56.820000	END_RES_DEF	
HA 3.670000	51.0_11.0 _DBF	HA 4.291000
CB 41.951000		CB 19.920000
	RES_ID 822	HB# 1.358000
HB1 1.405000	RES_TYPE SER	END_RES_DEF
HB2 1.199000	SPIN_SYSTEM ID 108	
CG 26.530000	HETEROGENEITY 100	DEC ID ADA
HG 1.580000	N 114.961000	RES_ID 828
CD1 24.327000		RES_TYPE GLY
HD1# 0.701000	HN 7.906000	SPIN_SYSTEM_ID 114
	CA 61.773000	HETEROGENEITY 100
CD2 25.429000	HA 4.200000	N 126.767000
HD2# 0.696000	CB 62.879000	HN 7.744000
END_RES_DEF	HB1 4.007000	CA 45.902000
	END_RES_DEF	HA1 4.019000
RES_ID 817		
RES TYPE GLU	RES ID 823	HA2 3.935000
SPIN SYSTEM ID 103		END_RES_DEF
	RES_TYPE LYS	
HETEROGENEITY 100	SPIN_SYSTEM_ID 109	RES_ID 829
N 120.700000	HETEROGENEITY 100	RES TYPE LEU
HN 8.073000	N 120.864000	SPIN_SYSTEM ID 115
CA 60.125000	HN 7.938000	
HA 3.185000	CA 56.820000	HETEROGENEITY 100
CB 29.835000		N 117.912000
HB1 1.720000	HA 4.008000	HN 7.742000
	CB 31.487000	CA 55.719000
HB2 1.310000	HB1 1.730000	HA 4.215000
CG 37.545000	HB2 1.567000	CB 43.052000
HG1 2.001000	CG 23.226000	HB1 1.562000
HG2 1.922000	HG1 0.833000	
END_RES_DEF	CD 27.080000	CG 27.632000
	HD1 1.403000	HG 1.536000
RES ID 818		CD1 23.776000
RES TYPE LYS	CE 42.501000	HD1# 0.711000
	HE1 2.569000	END_RES DEF
SPIN_SYSTEM_ID 104	HE2 2.422000	
HETEROGENEITY 100	END_RES_DEF	RES_ID 830
N 117.584000		RES_TYPE ILE
HN 7.145000	RES ID 824	
CA 59.688000	RES_ID 824 RES_TYPE ILE	SPIN_SYSTEM_ID 116 HETEROGENEITY 100
HA 4.075000	SPIN SYSTEM ID 110	
CB 32.588000	HETEROGENEITY 100	N 115.453000
HB1 1.929000		HN 7.458000
CG 25.644000	N 116.928000	CA 60.676000
	HN 8.101000	HA 4.232000
HG1 1.492000	CA 64.530000	CB 39.748000
CD 29.284000	HA 3.818000	HB 1.810000
HD1 1.681000	CB 36.990000	
CE 41.963000	HB 1.746000	CG1 27.080000
HE1 2.964000		HG11 1.314000
END_RES_DEF	CG1 26.530000	HG12 0.918000
	HG11 1.140000	CG2 17.718000
DEC TO	HG12 1.073000	HG2# 0.815000
RES_ID 819	CG2 18.820000	CD1 13.312000
RES_TYPE PHE	HG2# 0.654000	HD1# 0.794000
SPIN_SYSTEM_ID 105	CD1 13.312000	
HETEROGENEITY 100	HD1# 0.541000	END_RES_DEF
N 121.028000		
	END_RES_DEF	RES_ID 831
HN 7.869000		RES TYPE ASP
CA 61.230000	RES_ID 825	SPIN SYSTEM ID 117
HA 4.328000	RES TYPE LYS	HETEROGENEITY 100
CB 39.200000	SPIN_SYSTEM ID 111	
HB1 3.133000		N 123.488000
HB2 3.047000	HETEROGENEITY 100 N 122.176000	HN 8.270000
CDI 133.800000		CA 54-620000
	HN 7.546000	HA 4.571000
HD1 7.180000	HN 7.546000 CA 59.024000	HA 4.571000
HD1 7.180000 END_RES_DEF	HN 7.546000 CA 59.024000 HA 4.043000	HA 4.571000 CB 41.400000
	HN 7.546000 CA 59.024000 HA 4.043000	HA 4.571000 CB 41.400000 HB1 2.693000
	HN 7.546000 CA 59.024000	HA 4.571000 CB 41.400000

END\_RES\_DEF

RES\_ID 832
RES\_TYPE LYS
SPIN SYSTEM\_ID 118
HETERGGENEITY 100
N 125.450000
HN 7.774000
CA 57.720000
HA 4.082000
CB 33.410000
END\_RES\_DEF

# Unambiguous NOE-derived Inter-proton Distance Restraints

8 857 ppm2	8 416 ppm2	8 924 ppm2	8 562 ppm2	8.572 ppm2		082 ppm2		001 ppm2	100	100	822 ppm2	824 ppm2		822 ppm2	821 ppm2	936 ppm2	936 ppm2	8.936 ppm2	9.125 ppm2	
	ppm1	ppmi		ppm1		m1 11		6	m. B	rs 8	11 7	7	7	,	7	00	60			
36756E+02 ppm1		43992E+02 pt	10017E+03 PE	72183E+02 PE		23846E+02 ppml		52965E+03 ppml	E+03 ppm1	E+04 ppm1	E+03 ppm1			7+03 ppm1	3+03 ppm1	+03 ppm1	+03 ppm1	+03 ppm1	wdd E0+	
0 3675	0.50220B+02	0 4399	0 1001	0 72183		0 23646		0 52965	0 93421E+03	0 18953E+04	0 143806+03	0.30790E+03	0 473438+03	0 16643£+03	0 13090E+03	0 90687E+03	0 42952E+03	0 45502E+03	0 72592E+03 ppm1	
volume	volume	volume	volume	volume		volume		volume	volume	volume	volume	volume	volume	volume	volume		volume (	volume	volume	
11000E+01 volume	11000E+01	0 11000E+01	0 11000E+01	0 11000E+01		0 11000E+01 volume		0 11000E+01	11000E+01	0 11000E+01	0 11000E+01	0 11000E+01	0 110006+01	0.11000E+01 v	0.11000E+01 \	11000E+01 volume	11000E+01 v	11000E+01 v	0 11000E+01 v	
۰	0	0 11						0 110	0 110	0 110	0 110	0 110	0 110	0.110	0.110	0 110	0 110	0 1100	0 1100	
name HN )) name HD% ) 2141 weight	HD22)) HE%) weight	HD21) ) HE* ) weight	HN )) HDt ) weight	HN )) HB1 )) weight	HB2 ))	HG2 )) weight	HE1 ))	HN )) HA )) weight	HB ) ) HB ) )	HN )) HN )) weight	HN )) HB )) weight	HN )) HA )) weight	HN )) HB2 )) weight	HN )) HG1 )) weight	HN )) HB1 )) weight	HN )) HB% ) weight	HN )) HA )} weight	HN )) HN )) weight	HN )) HA )) weight	HN )
70 70	iid 89 and name iid 95 and name 1 600 peak 13261	and name and name peak 13271	d name d name 8521	and name and name peak 14401	name name name	5611	пате пате	name name 1	name name 11	name name 21	name name 31	name name 41	name name 51	name name 61	name name 71	name name 91	name H name H 101 w	name H name H 121 w	name H name H 131 w	name K
id 89 and 1d 96 and 1 300 peak	and and peak 1	and and peak 1	and and peak	and and peak 1	and and	and peak ;	and	and and peak	and and peak	and and peak	and and peak	and and peak	and and peak	and and peak	and and peak	and and peak	and and peak	and and peak	and and peak	and
4 7	อีอี	resid 89 resid 95	resid 46 resid 47 2 000	resid 87	resid 87 resid 88	resid 94	resid 32 resid 94	resid 43 resid 43 1 800	resid 43 resid 43 1 400	resid 43 and resid 42 and 1 200 peak	resid 42 and resid 41 and 2.200 peak	resid 42 resid 42 2 100	resid 42 and resid 42 and 1 800 peak	resid 42 resid 42 2 300	cestd 42 cestd 42 2.100	esid 99 1 400	resid 99 resid 99 2.000	resid 99 resid 98 1 800 p	resid 98 resid 98 1 600 p	resid 98
2141) segid "BrD " and segid "BrD " and 4 200 4 200 [13261]	" and " and 3 800	segid "BrD " and segid "BrD " and segid "BrD " and segid "BrD " and segion 4 000	segid "BrD " and pegid "BrD " and pegid "BrD " and pegid "500 3.100	segid "BrD " and segid "BrD " and 3 400 3 400 4401 "	"BrD " and "BrD " and "BrD " and	"BrD " and 4.500	and and	segid "BrD " and segid "BrD " and segid "BrD " and segid "11]	segid "BrD " and a segid "BrD " and a 2 400 1 400	segid "BrD" and a segid "BrD" and a 2 200 1.200	segid "BrD " and segid "BrD " and 3.300 2 700	segid "BrD " and a segid "BrD " and a 2 900 2 100	segid "BrD" and x segid "BrD" and x 2 700 1.800	and and	segid "BrD " and a segid "BrD " and a 3 400 2 900 { 91}	segid "BrD" and r segid "BrD" and r 2 400 1 400	segid BrD and segid BrD and 2.800 2.000			"BrD " and 1
( 4141) segid "Bri segid "Bri 4 200 (13261)	segid "BrD segid "BrD 3 900 3	egid "Bri egid "Bri 000		segid "BrD segid "BrD 3 700 3 14401)	aegid "BrD aegid "BrD (15611) aegid "BrD	(( segid "BrD 4 500 OR (15611)	segid "BrD ' Begid "BrD ' { 1}	segid "BrD segid "BrD 2.700	segid BrD	200 311	id Brb	d Bro	11 BrD	segid "BrD segid "BrD 3 200 2	ld "BrD ld "BrD )0 2	igid "BrD igid "BrD 400 1	91d "BrD 91d "BrD 800 2	* *	교교	segid BrD

3 656	5 451	4.939	4 538	9 150		2 712	4 816		2 307	3 409	3 596			4 977	4.201	3.958	8 477	4 934	3 740	8.476	566	3.695
9 125 ppm2	12 275 ppm2	12 275 ppm2	12 275 ppm2	12 275 ppm2	9 151 ppm2	9 152 ppm2	8 479 ppm2		8 480 ppm2	8 166 ppm2		8 165 ppm2		739	7 740 ppm2	7 739 ppm2	12 275 ppm2	8 488 ppm2	8 487 ppm2	9 740 ppm2	9 740 ppm2	9 740 ppm2
0 952738+03 ppm1	0 20628E+03 ppm1	0 16806E+03 ppm1	0 40863E+03 ppm1	0 15134E+03 ppm1	0 44648E+03 ppm1	0 39478E+03 ppml	0 12405E+03 ppm1	0 13933E+03 ppm1	0 88455E+03 ppm1	0 82952E+03 ppml	0 71832E+03 ppml	0 \$3058E+03 ppm1	0 11688E+03 ppm1	0 66621E+03 ppm1	0 30872E+03 ppm1	0 59972E+03 ppml	0 41861E+03 ppm1	0 22043E+03 ppm1	0 42542E+03 ppml	0,44987E+03 ppm1	55394E+03 ppm1	71565E+03
• 0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0.11000E+01 volume	0.11000E+01 volume	0 11000E+01 volume	0.11000E+01 volume	0.11000E+01 volume	0.11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 118888481 volume	0 11000E+01 volume	0.11000E+01 Volume	0 11000E+01 volume (	0 11000E+01 volume 0	0 11000E+01 volume C	0.11000E+01 volume 0	0.11000E+01 volume 0	0.11000E+01 volume 0	11000E+01 volume 0
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reald 98	2 400 pe	d resid 30 and d resid 30 and 2.300 peak	d resid 30 and d resid 30 and 2 000 peak	d resid 30 and d resid 29 and 2 200 peak	d resid 29 and d resid 29 and 1 800 peak	dresid 29 and dresid 29 and 2 000 peak	resid 31 and resid 29 and 2 100 peak	resid 31 and resid 31 and 2 200 peak	resid 31 and resid 31 and 1 400 peak	resid 28 and resid 28 and 1.600 peak	resid 28 and resid 28 and 1 600 peak	resid 28 and resid 28 and 1.800 peak	resid 28 and resid 29 and 2 100 peak	resid 32 and resid 32 and 1 700 peak	resid 32 and resid 32 and 2 100 peak	resid 32 and resid 32 and 1 700 peak	resid 30 and resid 31 and s	resid 105 and resid 105 and 2 400 peak	resid 105 and resid 105 and 2.000 peak	resid 106 and resid 105 and 1.800 peak	resid 106 and resid 106 and 1 700 peak	resid 106 and 1.600 peak resid 106 and
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#### DDS1US14 LDSSCD

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8 664 4 809 9 124

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	8 669 ppm2 8,669 ppm2		8.676 ppm2			7 976 ppm2	7 979 pm2	7 979 ppm2	8 669 ppm2	8 669 ppm2	8 669 ppm2	2mdd 619 6	9,679 ppm2	8 713 ppm2	8 713 ppm2	8 873 ppm2	8 871 ppm2		612	7 996 ppm2	7 996 Ppm2	8 612 ppm2
	0 49224E+03 ppml 0.10916E+04 ppml	0 76441E+03 ppml	0 58097E+03 ppm1	0 25513E+03 ppm1	0 65098£+03 ppm1	0 42091E+03 ppm1	0 56648E+03 ppm1	67038E+03 ppml	22376E+03 ppm1	37061E+03 ppm1	54351E+03 ppml	13528E+03 ppm1	95054E+02 ppm1	16612E+03 ppm1	157618+03 ppm1	71435E+03 ppm1	69883E+03	86678E+03 ppm1		53554E+03 ppm1	22098E+64 ppm1	0.57823E+03 ppm1
•	volume	0 11000E+01 volume	11000E+01 volume	11000E+01 volume	11000E+01 volume	11000E+01 volume (	0 11000E+01 volume (	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	0 11000E+01 volume 0	0 11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	0.11000E+01 volume 0	0.11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0.9
resid 100 and name HN )} resud 100 and name HA )} 2 800 peak 741 weinht	resid 100 and name HN )) resid 100 and name HS2 )) 1 400 peak 751 weight	nd resid 99 and name HN )) nd resid 100 and name HN )) 1.600 peak 771 weight	d reald 97 and name HN )) d reald 97 and name HA )) 1 700 peak 791 weight	d reeld 97 and name HN )) d reeld 98 and name HN )) 2 200 peak 811 weight	d resid 96 and name HN )) d resid 96 and name HA )) 1 700 peak 841 weight	d reald 96 and name HN )) d reald 96 and name HBI )) 2 000 peak 851 weight (	esid 96 and name HN )) esid 96 and name HB2 )) 1 700 peak 861 weight	esid 96 esid 97 1 700	iresid 95 and name HN }} iresid 95 and name HA )) 2 400 peak 891 weight 0	resid 95 and name HN  )	resid 95 and name HB )) resid 95 and name HB2 )) 1 800 peak 911 weight 0	resid 94 and name HM )) resid 94 and name HA )) 2 200 peak 921 weight 0	resid 94 and name HN )) Fesid 95 and name HN )) 2 000 peak 941 weight 0	resid 93 and name HN )) resid 93 and name HA )) z 300 peak 971 weight 0	resid 93 and name HN )) resid 93 and name HB2 )) 2 200 peak 981 weight	resid 92 and name HN )) resid 92 and name HA )) 1 600 peak 1001 weight	resid 92 and name HN }) resid 93 and name HN }) 1 600 peak 1011 weight 0	resid 76 and name HW )) resid 76 and name HA )) 1 600 peak 1031 weight 0	cesid 76 and name HN )) cesid 76 and name HB%) 1 200 peak 1041 weight	resid 77 and name HN )) resid 77 and name HA )) 1 800 peak 1061 weight	resid 77 and name HN )) resid 77 and name HB1 )) 1 100 peak 1071 weight 0	resid 76 and name HN )) resid 77 and name HN )) 1 700 peak 1091 weight 0 resid 75 and name HN ))
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0.11998E+04 ppml	+03	g (	3 :	8	0.57313E+03 ppml	9799467403	119225-04		436198403	0.3009			T / byuk+u1 ppm]	F0+28677	3	#0+9##CCT	121148+03	00	15417E+04	4.28 /8E+03	0 42782E+03 ppm1	69
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in the	2 100 peak resid 107 and resid 107 and 2 000 peak	rD " and resid 107 and name rD " and resid 107 and name 1 700 1 700 peak 471	esid 107 and name esid 107 and name 2 300 peak 481	rD " and resid 108 and 1 rD " and resid 107 and 1 1 700 1 700 meak	eeld 108 and ecld 108 and 1.800 peak	orb " and resid 108 and name ind " and resid 108 and name 1 400 1 400 peak 521	esid 109 and name esid 109 and name 1 300 peak 531	esid 110 and name esid 109 and name 2 100 peak 541	esid 110 and name esid 110 and name 2 000 peak 551	nd name nd name < 561	seld 109 and name asid 110 and name 2.000 peak 581	nd name	resid 111 and name resid 111 and name 1 601 1 601	nd name HN )) nd name HN }) k 621 weight	eald 112 and name HN )) eald 112 and name HA )) 1 300 peak 631 weight	resid 112 and name HN )) resid 112 and name HG1 ))	1) "BrD" and reald 112 and name "BrD" and reald 112 and name 3 loo 2 000 neak KEI	celd 112 and name HN )) celd 112 and name HBI )) 1 200 reak 661 match?	reald 113 and name HN )) reald 113 and name HA ))	celd 113 and hame HN )) testd 113 and name HBt ) 1 400 peak 681 weight	esid 114 and name HN }) esid 114 and name HAI }) Z 000 peak 701 Weight	1 / / / / / / / / / / / / / / / / / / /
0-M 00 00	ு நிறிவ	69.69	9 9 %	693	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	. 199 199 199	3 5 5 6	a 4 4 4 5	4 4 4 8	35,53	316 316 800	55 37 C 30 C 20 C	9 1 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	3 2 2 2 8	63 93.d 300	64. Eg1d 400	653 91d 191d 500	661 egid egid .200	2 7 7 8	681 291d 291d 400	701 egid egid .800	2420

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	4.671	3 549			760 0	52.6	3 627	3 382	2 659	8 765	4 527	4 895	4,669	4 367	2 538		2 486	4.645	3 143	2.939	9 123	7 663
	8 832 ppm2	8 832 ppm2				8 564 ppm2		6 564 ppm2	8 565 ppm2	8 565 ppm2	8 146 ppm2	8 146 ppm2	8 147 ppm2	8.546 ppm2	8 514 ppm2	9 456 ppm2		9 118 ppm2	119 ppm2	118 ppm2	456 ppm2	598 ppm2
	36081E+03 ppm1	31437E+03 ppm1	766218+03 ppm1	16656E+03 ppm1			0.66517E+03 ppm1	98393E+03 ppm1	101618:04 ppml	182E+04 ppm1	7E+03 ppm1	6E+03 ppm1	13472E+04 ppm1	ppm1	3E+03 ppm1	E+03 ppm1	ppm1	ppm1	E+03 ppm1 9	E+03 ppm1 9	E+03 ppm1 9	3+03 ppml 8
	ume 0	volume 0 314	volume 0 766	volume 0 166	0	volume 0 815	volume 0.665	volume 0 983	volume 0 1016	volume 0 1348	Volume 0 4406	volume 0 84286E+	Volume 0 1347	volume 0 31054E+03	volume 0.51528E+03	volume 0 45405E+03	volume 0 13959E+03	volume 0.61098E+01	volume 0 11565E	volume 0.34650E	volume 0.57061E	име 0 20888Б+03
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9 658 ppm2	7 516 ppm2	7 516 ppm2	9 464 ppm2	8 423 ppm2	8.423 ppm2	7 516 ppm2	8 570 ppm2	8 572 ppm2	8 572 ppm2	8 570 ppm2	8 571 ppm2	8 355 ppm2	8 356 ppm2	8 354 ppm2	8 858 ppm2	8.858 ppm2	8 858 ppm2	8 355 ppm2	8 562 ppm2	8 562 ppm2	8 561 ppm2	2 95 ppm2
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name HA )) 1661 weight name HN )) name HG1 ))	1671 weight name HN )) name HBl ))	1681 weight name HN )) name HN ))	name HN ))	name HN ))	1721 weight name HN )) name HB ))	name HN )) name HOl*) 1741 weight	name HN )) name HG2%) 1751 weight 0	name HN )) name HN )) 1721 weight 0	name HN ))	name HN ))	name HN ))	1811 weight name HN }) name HBl ))	1821 weight name HN )) name HN ))	1831 weight name HN )) name HA ))	1851 weight name HN )) name HA ))	1861 weight 0 name HN ))	1881 weight o name HN })	1901 weight name HN )) name HB ))	1911 weight name HN )) name HG2%)	1921 Weight O name HN ))	1931 weight 0 name HN ))	1941 weight 0 name HN )) name HB2 )) 1951 weight 0
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1 933	4 860	4 571	1 745	3 441	4 26 4	8 521	4 280	8 513	3 800	1.928	2 353	2 529	9 157	4 690	8 680	8.475	0 788	3 711	2 037	1 071	0 751	7.258
8 375 ppm2	8 679 ppm2	8 678 ppm2	8 670 ppm2	8 513 ppm2	8 513 ppm2	8 669 ppm2	9 156 ppm2	9 156 ppm2	8 695 ppm2	8 696 ppm2	8 695 ppm2	8 695 ppm2	8 694 ppm2	7 763 ppm2	7 763 ppm2	7 763 ppm2	8 685 ppm2	7 640 ppm2	7 640 ppm2	7 640 ppm2	7 640 ppm2	6.981 ppm2
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ASSI { 2521} (10.0424 bit 2521) (10.0424 bit 2521 bit 2521) (10.0424 bit 2521 bit 25	Abol ( 9cg14 "BED" and reald 17 and name HN )) (( seg14 "BED" and reald 17 and name HB )) (( seg14 "BED" and reald 17 and name HB )) 3 000 2 200 2 200 peak 2531 weight ARST ( 544)	segid "BrD " and reald 17 and name segid "BrD " and reald 17 and name 2 400 1 400 1 400 peak 2541 { 2551}	segid "BrD " and resid 17 and name segid "BrD " and resid 17 and name 3 100 2 400 2 400 peak 2551 2561	segid "BrD " and resid 101 and name wegad "BrD " and reaid 100 and name 2.800 2.000 2.000 peak 2561 { 2571}	101 and name 101 and name 00 peak 2571 100 and name	90g1d "BrD " and resid 101 and hame 2591 (2.600 1 700 1 700 peak 2591 (2.501) 90g34d "BrD " and resid 102 and name	segid "BrD " and resid 102 and name 2 900 2 100 2 100 peak 2601, [2 501] 2 5511 and resid 102 and name secid "RrD" and resid 102 and name	aegid "BrD" and resid 101 and name 2 700 1 800 1 800 peak 2611 { 2641}	megid "BED" and resid 103 and name eegid "BED" and resid 103 and name 2 800 2 800 2 000 peak 2641 { 2651}	segid "BFD" and resid 103 and name eggid "BFD" and resid 103 and name 2.800 2 000 peak 2651 { 2661}	segid "BrD" and restd 103 and name segid "BrD" and restd 103 and name 2 500 1 600 1 600 peak 2661 { 2671}	({ ecgrd "BrD " and resid 103 and name HN }) ({ ecgrd "BrD " and resid 103 and name HG2 }) 3.500 2 600 2 300 peak 2671 weight ASSI { 2681}	(( segid "BrD " and roadd 103 and name HN )) (( segid "BrD " and reoid 102 and name HN )) (260 1 700 1 700 peak 2681 weight ASS [ 2711)	(( segid "BrD " and resid 104 and name HN )) (( segid "BrD " and resid 104 and name HA )) 3.600 1 700 1 700 peak 2711 weight aser ( 2731)	(( segid "8FD " and resid 104 and name HN )) (( segid "BFD " and resid 103 and name HN )) 2 800 2 000 2 000 peak 2731 weight ASE ( 2751)	(( segid "BrD " and resid 104 and name HN )) (( segid "BrD " and resid 105 and name HN )) (2.700 1.800 1.800 peak 2751 weight ASS [ 2.711)	segid "BrD " and resid 79 and name segid "BrD " and resid 78 and name 3 900 3 800 1 600 peak 2771 { 2781 }	{ segid "BrD" and resid 81 and name HM }) ( segid "BrD" and resid 81 and name HA }) 3.300 2 700 2 200 peak 2781 weight ASSI { 2791}	segid "BrD " and resid 81 segid "BrD " and resid 81 2 500 1 600 1 600 [ 2801 ]	segid "BrD " and resid 81 and segid "BrD " and resid 81 and 2.500 1 600 peak { 2.500 }	sid 81 sid 81 2 400 pc	( degid "BFD" and reeld 82 and name HN )) ( eegid "BFD" and reeld 82 and name HDk ) 3 000 2 000 peak 2821 weight ASI ( 2831)
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8 832 ppm2 7 253	8.831 ppm2 4 708	833 ppm2 3	832 ppm2 3	307 ppm2 4		ppm2 8	4	Control 100		762 ppm2 1	, radd	8 559 ppm2 8 318	ppm2	7.762 ppm2 8 554	ppm2 4	₽pm2 →	ppm2 2	8 087 ppm2 4 828	ppm2 2	5 zwdd	ppm2	6 879 ppm2 3 147
832 ppm2	Ppml 8.831 ppm2 4	11000E+01 volume	volume 0 34763E+03 ppml 8 832 ppm2 3	Volume 0 37621E+03 ppml 8 307 ppm2 4	308 ppm2 2 308 ppm2 2	8.832 ppm2 8	ppml 7 762 ppm2 4	r Common 036 C I manua EV.4359CC O sumileon	samile contacts of the plant of	Volume U 15115E+U3 ppml 7 762 ppm2 1	, rudd ans a tudd soesseen banton toesonott	volume 0 55801E+03 ppml 8 559 ppm2 8	Volume 0 45800E+03 ppml 8 564 ppm2	ppm2 8	volume 0 20145E+03 ppml 8 355 ppm2 4	Volume 0.383878.03 ppml 8 355 ppm2 4	11000E+01 volume 0 51528E+03 ppm1 8 086 ppm2 2	Volume 0 81456E+03 ppml 8 087 ppm2 4	Volume 0 58085E+03 ppml 8 086 ppm2 2	.11000E+01 volume 0 15334E+03 ppml 8 880 ppm2 5	volume 0 14660E+03 ppml 8 879 ppm2 3	ppm2

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2 653 ppm2	10 051 ppm2	052	10 051 ppm2	9 359 ppm2	051	678				7 973 ppm2	7.975 ppm2	8 792 ppm2	8 599 ppm2	8 599 ppm2	8 598 ppm2	8 598 ppm2	8 293 nom2	•	8 801 ppm2	8.811 ppm2	8 807 ppm2	8 809 ppm2	8.176 ppm2	8 182 ppm2
90084E+02 ppm1	34424E+03 ppml		0.68430E+02 ppm1	45739E+03 ppml	Ş		ä			57256E+03 ppm1	19260E+03 ppml	81267E+03 ppm1	0.88513E+02 ppm1	23859E+03 ppm1	455E+03 ppm1	74771E+03 ppm1	87721E+03 trem1		0.16876E+03 ppm1	15715E+03 ppm1	12106E+04 ppm1	15172E+03 ppm1	39310E+03 ppm1	86588E+02 ppml
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and name HN )) and name HA )) peak 3131 weight	and name HN )) and name HA )) peak 3141 weight	name name 3151	and name HN )) and name HG2%) peak 3161 weight	and name HN )) and name HA )) peak 3171 weight	name name 3191	лате пате 3201	name name 3221	name	peak 3231 weight and name HN )) and name HA ))	3241 name	3251	name 3271	name name 3281	and name HN }} and name HA }} peak 3291 weight	and name HN }) and name HB1 }) peak 3301 weight	and name HN }} and name HB2 }} peak 3311 weight	and name HN )) and name HN )) peak 3331 weight	name	3341 name	3351 name	3381	3391	3411	and name HN )) and name HB1 )) sak 3421 weight and name HN ))
and resid 39 and resid 39 00 1 900 p	resid 58 resid 58 2 100	resid 58 resid 58 2 100	esid 58 esid 58 1 800	sid 57 sid 57 1 800	81d 58 81d 57 1 700	81d 56 81d 56 2 400	81d 57 81d 56 2 400	esid 79	2 300 send 55 send 55	1 700 1 700	2 300	1 600	resid 15	esid 15 esid 15 2 200	eald 15 eald 15 1 700	esid 15 esid 15 1 600	eard 16 eard 15 1 600	eard 13	2 300 end 14	00 2 200	1.300 testd 14	2.200	2.000	and resid 34 and resid 34 30 1 900 pc and resid 34
{ 3131} segid "BrD " segid "BrD " 3 600 3 2	{ 3141}   segid "BrD " and a   segid "BrD " and a   2 900   2.100	{ 3151} eegid "BrD" and regid "BrD" and z	{ 3161} segid "BrD " segid "BrD " 3 700 3 4	[ 3171] ( segid "BrD " and r ( segid "BrD " and r 2 700 1 800	I { 1191} ( segid "BrD " and re ( segid "BrD " and re 2 600 1.700	{ 3201} segid "BrD " segid "BrD " 3 100 2 4	{ 3221} segid "BrD " and r segid "BrD " and r 3 100 2 400	{ 3231} segid "BrD " and r segid "BrD " and r	3 200 2.600 { 3241} #egid "BrD " and #egid "BrD " and	2 600 { 3251} segid "Bi	3.200 2 6 3.271}	segid "BrD " and 1 2 500 1 600 { 3381}	segid "BrD " and a segid "BrD " and a 3 600 3 200 { 3291}	segid BrD and resident and resi	segid "BrD" segid "BrD" 2 600 17	I { 3311} { segid "BrD " and r { segid "BrD " and r 2 500 1.600	{ 3331} segid "BrD " and segid "BrD " and 2 500 1 600	{ 3341} segid "BrD " segid "BrD "	3.200 2 6 { 3351} segid "BrD"	3 300 2 { 3381} aegid "BrD"	segid "BrD " and 2 300   1 300   ( 3391) and eeqid "BrD " and	8 segid "BrD" and z 3 300 2.700 [ 3411 ]	2.800 2.00 { 3421}	( megid "BrD " and r ( megid "BrD " and r 3 200 3 200 [ ( 3431) ( megid "BrD " and r
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6.981 ppm2	6 981 ppm2	6 981 ppm2	7 640 ppm2	6 981 ppm2	8 684 ppm2	8 005 ppm2	8 006 ppm2	9 658 ppm2	8.681 ppm2	8 681 ppm2	8 679 ppm2		8 00¢ ppmz	7.536 ppm2	8 045 ppm2	8 049 ppm2	8 584 ppm2	8 584 ppm2	9 473 ppm2	9 478 ppm2	732	731		
0.42147E+03 ppml	0 271345+03 ppml	0 588972+03 ppml	0 36428E+03 ppml	0 41793E+03 ppm1	0 52951E+02 ppml	82068E+03 ppml	47132E+03 ppm1	127128+03 ppm1	. 576568+03 ppml	30890E+03 ppm1	78107E+03 ppm1		*300055	98034E+02 ppm1	57896E+03 ppm1	0 42186E+03 ppml	20596E+03 ppm1	63768E+03 ppm1	0.33289E+03 ppm1	68875E+03 ppm1	21794E+03 F			
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2631 weight bame HN ))	2841 weight	nd name HB2 ))  k 2851 weight  ind name HN ))	2871 Weight name HN ))	2891 weight	and name HD2*) isk 2901 weight and name HN ))	ламе 2911 паме	name 2921 name	2941	2951	and name RN )} and name RG1 }) tak 2961 weight	and name HN )) and name HB2 ))	name	Assi weight name HN ))	3001 weight name HN ))	3011 name	3021 3021 name	3041 weight name HN ))	3051 weight	name nn // name HA // 3061 weight	and name HN )) and name HN )) ask 3071 weight 0	name HN )) name HA )) 3091 weight	name HN )) name HB )) 3101 weight	name HN ))	name HN )) name HG2V) 3121 weight
resid 82 2.000 resid 82 resid 82	2 200 resid 82	1 700 1 700 estd 81	2 000 2 000 3 000	2 000 pe	1 600 pe	1 600 pe 1 600 pe esid 80	esid 81 1 800 pr esid 83	2 100 pe	1 700 pe	esid 79 esid 79 2 100 pe	eald 79 eald 79 1 600 pe	esid 80	esid 74	2 000 estd 73	1 700 esid 73	2 000 pe	2 400	1 700	resid 63 and 2 100 peak	esid 63 esid 64 1 700 pe	resid 38 and resid 38 and 2 400 peak	esid 38 esid 38 1 600	esid 38	esid 38
segid "BrD " and 12.800 2.000 (2.841) segid "BrD " and 18e9id "BrD " and 18e9id "BrD " and 18e9id "BrD " and 1	2851) 2851) 1916 "BrD " and	491d "BrD " an 600 1 700 2871} 191d "BrD " an	Segid BrD and	910 2 000 2901) 91d "BrD " and	91d "BrD " an 900 3 800 2911) 91d "BrD " and	igid "BrD " an 500 1 600 2921} gid "BrD " and	igid "BrD " an. 700 1 800 2941} gid "BrD " and	91d "BrD " and 400 2 900 2951}	( segid "BrD" and r 2.600 1 700	Gld "BrD " an Gld "BrD " an 900 2 100 297)	gid "BrD " and gid "BrD " and 500 1 600	( segid "BrD " and segid "BrD " and	3001} grd "BrD " and grd "BrD " and	500 3.100 3011} grd "BrD " and	600 1 700 3021} g1d "BrD " and	2 800 2 000 [ { 3041} ( segid "BrD" and r	914 ELD and 100 2 400 3051} 31d BrD and	91d "BrD " and 600 1 700 3061}	segid "BrD" and 1 2 900 2.100 { 3071}	segid "BrD " and r segid "BrD " and r 2 600 1 700	I { 3091} ( segid "BrD " and r ( segid "BrD " and r 3.100 2 400	[ { 3101} ( segid "BrD " and x ( segid "BrD " and r 2 500 1 600	{ 3111} segid "BrD " and segid "BrD " and	( 3121) ( 3121) ( 3691d "BrD " and r 4 000 4 000
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(( segid "BrD " and resid 34 and name HB2 )) 2.700 1.800 1.800 peak 3431 weight	0.11000E+01 volume 0 51957E+03 ppm1	8.182 ppm2	3.143	eaid 78 and name	• (( NH			
resid 35 and name		•		2 500 1 600 1 600 peak 3731 ( 3741)	0 11000E+01 volume	0 73125E+03 ppml	7 996 ppm2	4 004
3 300	. 0 11000E+01 Volume 0 14464E+03 ppml	7 735 ppm2 3	139	esid 118 and name esid 118 and name 2 100 peak 3741	HN )) HA )) weight 0 11000E+01 volume	0 30830E+03 ppm1	8 381 ppm2	689
3451 1ame	. 0 11000E+01 volume 0 42792R+03 ppm1	7 734 ppm2 4	668	segid "BrD " and resid 54 and name segid "BrD " and resid 54 and name 2 900 2 100 2 100 peak 3761	HH )) HA )) weight 0 11000E+01 volume	0 30432E+03 ppm1	9 036 ppm2	5.546
86910 "BIU " and resid 35 and name 2 300 1 800 1 800 peak 3461 6 3471	: 0 110008+01 volume 0 545178+03 ppml	7 734 ppm2 3	. 436	celd 54 and name	HN ))			
2.200 peak 3471	0 11000E+01 volume 0 15293E+03 ppm1	7 733 ppm2 2	781	cent 54 and name		T 17200011 0	and aco	2.53
(( seg1d "BrD " and ree1d 34 and name HN )) (( seg1d "BrD " and ree1d 35 and name HN )) 2 200 1 200 1 200 pcak 3491 weight	0.11000E+01 volume 0 15285E+04 ppml	8 176 ppm2	7 714	3.600 3 200 1 900 peak 3781 { 3791} segid "BrD" and resid 62 and name	0 11000E+01 volume	0 92666E+02 ppml	9 037 ppm2	1 960
esid 36 and name	co. contract to contract of		, v	8eg1d "BrD " and reg1d 59 and name 3 200 2 600 2 300 peak 3791 { 3801}	0 11000E+01 volume	0 18605E+03 ppm1	8 998 ppm2	900
eard 36 and name		Timed d		eggid "BrD" and resid 62 and name 2.800 2 000 2 000 peak 3801 ( 3811)	0.11000E+01 volume	0 36964E+03 ppm1	8 998 ppm2	4 467
1 700 3 400 1.800 peak 3511 { 3521} segid "BYD" and resid 36 and name ocqid "BYD" and resid 36 and name	. 0 11000E+01 volume 0 72744E+02 ppml	8.308 ppm2 2	2.771	segid "BrD " and resid 72 and name segid "BrD " and resid 72 and name 3.000 2 200 2 200 peak 3811 { 3821 }	HN }) HA }) weight 0 11000£+01 volume (	0.24473E+03 ppml	8 858 ppm2	4.648
peak 3521 and name	0 11000E+01 volume 0 65455E+03 ppm1	8 311 ppm2 2	33.7	segid "BrD " and reald 72 and name segid "BrD " and reald 73 and name 3.700 3 400 1 800 peak 3821 { 3851	HN )) Weight 0 11000E+01 volume (	0 74895E+02 ppml	8 858 ppm2	8 033
2 700 1 800 1 800 peak 3541 86351) 8621d "BrD " and resid 12 and name 8631d "BrD" and resid 12 and name	0 11000E+01 volume 0 54251B+03 ppm1	7 734 ppm2 8	316	segid "brD " and resid 61 and name segid "brD " and resid 61 and name 2 500 1 600 1.600 peak 3851 { 3861}	HA )) Weight 0 11000E+01 volume (	0 82145E+03 ppm1	8 748 ppm2	4.652
2 100 1 100 1 100 peak 3561 ( 3571) eggld "BrD" and resid 12 and name secid "BrD" and resid 12 and name	0 11000E+01 volume 0 19935E+04 ppml	9 021 ppm2 S	292	segid "BrD " and reald 65 and name segid "BrD " and reald 62 and name 100 2 400 peak 3861 81371	HN )) HA )) weight 0 11000E+01 volume (	0 22227E+03 ppm1	8 568 ppm2	4 476
2 700 1 800 1 800 peak { 3581} segid "BYD" and resid 10 and cond "BYD" and resid 10 and cond "BYD" and resid 10 and cond "BYD" and cond "BYD" and cond "BYD" and cond "BYD" and cond an	0 11000E+01 volume 0 46239E+03 ppml	9 020 ppm2 3	3.428	oegid "BED" and resid 60 and name negid "BED" and resid 60 and name 400 1 400 1 400 peak 3871	HN )) HA )) weight 0 ll000E+01 volume (	0 10791E+04 ppm1	8 569 ppm2	808
3 500 3 100 2 000 peak [ 3591] and resid 10 and	0 11000E+01 volume 0 10021E+03 prm1	s 885 ppm2	481	9 egid "hyD" and resid 60 and name segid "hyD" and resid 60 and hame 2 400 1 400 peak 3881	HN }) HB2 }) Weight 0 11000E+01 volume (	0.10099E+04 ppm1	8 569 ppm2	4 647
segid 'BrD " and reaid 10 and hame 1 3611   200 2 200 peak 3591 6 3611   and reald 9 and name	0 11000B+01 volume 0 27522E+03 ppml	8.885 ppm2	3.361	{ 3891} seepld "BYD" and resid 60 and hame seepld "BHD" and resid 60 and hame 2.600 1 700 1 700 peak 3891	HN )) HB1 )) weight 0 11000E+01 volume (	0 65212E+03 ppm1		4.975
Begid "BrD " and resid 9 and name 2 900 2 100 2 100 peak 3611 { 3621}	0.110005+01 volume 0 31864E+03 ppml	9 054 ppm2 2	4. 4.	esid 59 and name				
segid "BrD " and segid "BrD " and 3 500 3 100 { 3641}	0 11000E+01 volume 0 11024E+03 ppm1	9 054 ppm2 8	880	peak 3901	0.11000E+01 volume	0 18755E+03 ppml	8 497 ppm2	4.893
(1 segid "BrD" and resid 62 and name HN )) (( segid "BrD" and resid 62 and name HDI )) 3.400 2.900 2.100 peak 3641 weight	0 11000E+01 Volume 0 12186E+03 ppm1	8 998 ppm2 3	185	segid "BrD " and resid to and name 2 600 1 700 1 700 peak 3921 { 3331} eegid "BrD " and resid 10 and name	HA }) Weight 0.11000E+01 volume (HN ))	0 63166E+03 ppm1	8 924 ppm2	4 968
ASSI ( 851) (( 8521d 'BrD' and resid 62 and name HN )) (( 8521d 'BrD' and resid 61 and name HO2 )) (1 8521d 'BrD' and resid 61 and name HO2 )) (1 8521d 'BrD' and resid 61 and name HO2 ))	0 11000E+01 volume 0 24395E+03 ppm1	8.999 ppm2	783	segid "BrD" and reald 9 and name 1.700 peak 3931 ( 3941) and resid 13 and name	0 11000E+01 volume	0 55346B+03 ppm1	8.884 ppm2	4 938
AS31 (304 "BrD" and reald 62 and name HN )) (( segid "BrD" and reald 62 and name HGI )) 2 60 1 700 peak 3651 weight	0 11000E+01 volume 0 63487E+03 ppm1	8 997 Ppm2 2	329	segid "BrD" and resid 12 and name 2 350 peak 3941 (3551) and resid 16 and name	0 11000E+01 volume	0.18205E+03 ppml	8 809 ppm2	5 299
ASS1 { 3801} and reald ? and name HN }) (( degld "BYD" and reald ? and name HA )) (1 segld "BYD" and reald ? and name HA )) 3 100 2 400 2 400 peak 3681 weight	0 11000E+01 volume 0 21276E+03 ppm1	8 924 ppm2 S	147	segid "BrD " and resid 15 and name 2 200 peak 3951 { 3961} segid "BrD " and resid 16 and name	0 11000E+01 volume	0 13722E+03 ppm1	8 793 ppm2	3 818
ASS1 { 3691} ({ eegid "BED" and resid ? and name HN }) ({ eegid "BED" and resid ? and name HG1 }) (3 400 2 900 2.100 peak 3691 weight	0.11000E+01 volume 0 12947E+03 ppm1	8.923 ppm2 2		segid 'BrD' and resid 15 and name 2 500 1 600 1 600 peak 3961 ( 3971) and resid 17 and name	)) ght 0 11000E+01 volume ))	0 74092E+03 ppml	8 793 ppm2	3 631
{ 3701} sepid "BrD" and resid 7 and name segid "BrD" and resid 7 and name 1 100 2 400 peak 3701	0.110008+01 volume 0.201038+03 ppm1	8 923 ppm2 2	633	eegid "BrD" and resid 16 and name 2500 1 600 1.600 peak 3971 ( 3991) segid "BrD" and resid 18 and name	0.11000E+01 volume	0 826858+03 ppm1	8 669 ppm2	4 516
~ * * * * *	0.11000E+01 volume 0 54229E+03 ppm1	8 924 ppm2 2	2.500	segid "BID" and resid 18 and name 3.000 peak 3991 [ 4001] segid "BID" and resid 18 and name	0 11000E+01 Volume	0 24581E+03 ppml	9.072 ppm2	3.878
ASSI ( 3721 ) ( segat "BED" and reald 79 and name HN )) ( segat "BED" and reald 78 and name HG )) 2.800 2 000 2 000 peak 3721 weight	0.11000E+01 volume 0.38659E+03 ppml	8 681 ppm2 1	1.314	segid "BYD" and resid 17 and name 2 800 2 000 peak 4001 (4011) and resid 18 and name	0 11000E+01 volume	0 36663E+03 ppm1	9 072 ppm2	4 854

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	8 475	5.537	4 277	4 893	3 458	91.	- -	1 752	1.071	0 776	5 055	2 607		19/ 7	2 698	4 139	3.296	3.094	4 708	;	4 816	2.872	2 693	4.693	2.622		1 598
	7 735 ppm2	7 734 ppm2	8 309 ppm2	8 308 ppm2	8 307 ppm2	0 0 0	andy ace	9 652 ppm2	9 652 ppm2	9 652 ppm2	8.001 ppm2	8 001 ppm2		zwad Ton 9	8 308 ppm2	8 832 ppm2	8 832 ppm2	8.833 ppm2	8 307 ppm2		7 762 ppm2	7 762 ppm2	7 762 ppm2	8 564 ppm2	8 564 ppm2		8 564 ppm2
	0 11812E+04 ppm1	0.17960E+03 ppml	0 97101E+02 ppml	0 16106E+03 ppml	0 78555E+02 ppml	15683FL 04		0 11939E+03 ppm1	0 93234E+02 ppm1	0 20061E+03 ppml	0 31481E+03 ppml	0 36989E+03 ppm1		o szagoktos ppmi	0 42122E+03 ppml	0 14320E+03 ppm1	0 110138+03 ppm1	0.20297E+03 ppml	0.16849E+03 ppm1		0 243765+03 ppml	0 45441B+02 ppm1	0 17937E+03 ppml	0 60014E+03 ppm1	0 31627E+03 ppml		0 77577E+02 ppml
•	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	emilon 1000011 0		0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume		o iluoobtu volume	0 11000E+61 volume	0 11000E+01 volume	0 11000E+01 volume	0.11000E+01 volume	0 11000E+01 volume		0.11000E+01 volume	0 11000E+01 volume	0.11000E+01 volume	0 11000E+01 volume	0.11000E+01 volume		0 110008+01 volume
and resid 32 and name	2 309.1 2.2 and 1920 peak 4271 ( 4291) and resid 35 and name	segid "BPD" and resid 34 and name 1 200 2 600 2 300 peak 4291 ( 4301) segid "BrD" and resid 36 and name	segid "BrD" and resid 37 and name 3 500 3.100 2 000 peak 4301 (4311) segid "BrD" and resid 36 and name	segid "BrD " and resid 35 and name 3 300 2 700 2 200 peak 4311 4 4321	Begind BrD and reald 36 and name HN )) Begind BrD and reald 35 and name HG1 )) 3 400 3 400 1 800 pask 4321 weight 4 4331	feedd "BrD" and reald 39 and name HN )) seegid "BrD" and reald 38 and name HA )) 2 200 1 200 1 200 neak 4331 wardth	and name HN ))	3 400 2.900 2 100 peak 4341 weight { 4351} segid "BrD" and resid 39 and name HN ))	segid "BID" and resid 38 and name 3 600 3 200 1 900 peak 4351 { 4361}	<pre>segid "BrD" and resid 39 and name segid "BrD" and resid 38 and name 3.100 2 400 2 400 peak 4361 4 4381}</pre>	(( megrd "BTD" and resaid 41 and name HW )) (( megrd "BTD" and resaid 42 and name HW )) ( 200	(1 megra "BrD" and reerd 41 and name HN )) (( megra "BrD" and reerd 42 and name HB2 )) 2 800 2 000 peak 4391 weaght	ASS! (4001) ((segad "BED" and resid 43 and name HN )) ((segad "BED" and resid 42 and name (HI)) () 9904 "BED" and resid 42 and name (HI))	resid 36 and name	2 800 2 000 2 000 peak 4411 4421 8 2 000 peak 4411 8 2 000 3 000 peak 4411 8 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	segid "BrD" and resid 46 and name 3 300 2 700 2 200 peak 4421 { 4431}	(( eegtd 'BrD' and read 47 and name HN )) (( eegtd 'BrD' and resid 46 and name HB1 )) (( eegtd 'BrD' and resid 46 and name HB1 ))  SET 1 4441 3 100 2 000 peak 4431 weight (	segid "BrD" and resid 47 and name HN )) segid "BrD" and resid 46 and name HB2 )) 3.100 2.400 2.400 peak 4441 weight	ADDI 1411   1411	cesid 49 and name HN ))	3 200 2 200 peak 4461 weight 	Segio "BIU " and resid 40 and name 4.000 4 000 1.500 peak 4471 4481} 8eqid "BiD " and resid 49 and name	segid "BrD " and resid 48 and name HB1 )) 3 200 2 600 2 300 peak 4481 weight (4491)	( megad "BPD" and reals 50 and name HN )) ( oegsd "BPD" and reals 49 and name HX )) 2 on 1,700 1700 peak 4491 weight (	segid "BrD" and resid 50 and name HN )) segid "BrD" and resid 49 and name HB )) 2.900 2.100 2.100 peak 4501 weight	seld 50 and name	ASSI (422) 1.400 1.800 peak 4511 weight 6.422) (6.00gad 'BED' and reaid 55 and nawe HN ))
4.531	1 749	9 062	3 878	0000	2 2 7	4 889	4.361	4 734		4 640	4 753	3 059	4 493	5.055	4 S74		3 55.7	3 406	4 819	2 718	3.024	ა გ. დ		4 941	4 533	3 565	2 295
9.072 ppm2	9 073 ppm2	8 669 ppm2	9 187 ppm2		8 146 ppmz	8 545 ppm2	9 457 ppm2	9 118 ppm2		s bel ppmz	9 133 ppm2	9 131 ppm2	8 171 ppm2	8 166 ppm2	9 151 ppm2		9 151 ppm2	9 152 ppm2	12 275 ppm2	12 275 ppm2	12 275 ppm2	8.481 ppm2		8 480 ppm2	8 480 ppm2	8 627 ppm2	7 739 ppm2
0.11000E+01 volume 0.18724E+03 ppml	volume 0 23212E+03 ppm1	olume 0 57514B+03 ppm1	volume 0.95460E+02 ppm1	121465.00	•	Volume 0 11425E+03 ppm1	volume 0 15238E+03 ppm1	olume 0 91130E+02 ppm1			51ume 0 14843E+03 ppm1	volume 0 87462E+03 ppml	volume 0.18491E+03 ppm1	volume 0 14739E+03 ppm1	volume 0 91502E+03 nom1		volume 0 119068+03 ppm1	volume 0.65813E+02 ppml	volume 0 88464E+02 ppml	volume 0 11541E+03 ppm1	lume 0 88536E+02 ppml	volume 0 86531E+02 ppm1	:	volune 0 23699E+03 ppml	lume 0.10932E+03 ppml	volume 0 47519E+03 ppm1	lume 0 35188E+03 ppm1
	0 11000E+01	0.11000E+01 volume	0 11000E+01	10-200011 0	10.490001	0 11000E+01	0 11000E+01	0.11000E+01 volume		100001	0 11000E+01 volume	0 11000E+01	0 11000E+01	0 110005+01	0 110006+01		0 11000E+01	0 11000E+01	0.11000E+01	0 11000E+01	0 11000E+01 volume	0.11000E+01 vc		0 11000E+01 vc	0 11000E+01 vol	0 11000E+01 vc	0 110008+01 volume
resid 17 and name 2.300 peak 4011	eegid "BrD " and resid 18 and name HN }) eegid "BrD " and resid 17 and name HG2t) 3 100 2 400 2 400 peak 4021 weight	(1904) 6egid 'BrD " and resid 17 and name HN )) 6egid 'BrD " and resid 18 and name HN )) 2.600 1 700 peak 4041 weight	(4051) sected 'BzD' and resid 19 and name HN )) sected 'BzD' and resid 18 and name HA )) 3.500	SI { 4061} ({ segad "BrD" and reald 20 and name HN }) (( egad "BrD" and reald 19 and name HA }) 3 200 2 500 2 300 mast 4621 and and	and 21 and name	k 4071 nd name	nd name k 4081	"BrD " and resid 23 and name HN )) "BrD " and resid 22 and name HA )) 3.200 1 900 peak 4091 weight	resid 24 and name	nd name	2 200 peak 4111 esid 25 and name	peak 4121 and name	2 300 peak 4141 eard 28 and name	esid 27 and 2 200 peak	( wegid "BrD " and resid 29 and hame HN )) ( segid "BrD " and resid 28 and name HA )) 2 400 1.400 1 400 resk 4161 weight	esid 29 and name	2 100 peak 4171 eard 29 and name	1 700 peak 4181 esid 30 and name	1 900 peak 4191 e81d 30 and name	esid 29 and name 2 100 peak 4201 eard 30 and name	esid 29 and 1 900 peak	segid "BrD" and resid 31 and name HN )) segid "BrD" and resid 30 and name HA )) 3.600 3 200 1 900 peak 4221 weight	and name	2.200 peak resid 31 and	2 000 peak 4241 resid 68 and name	1.800 peak 4251	

5 378	3 608	3 381	600 9	4 671	2.662	5 141	3 669	3 514	690	2 928	1 430	4 654	4 812	4 361	4 525	54.9	3 218	2 815	2 925	869		2 092
8.762 ppm2	8 759 gpm2	8 763 ppm2	8 832 ppm2	8 627 ppm2		8 305 ppm2	8 306 ppm2	8 306 ppm2	6.039 ppm2	8 041 ppm2	8 040 ppm2	8.045 ppm2	7.536 ppm2	9 106 ppm2	8.611 ppm2	8 611 ppm2	8 610 ppm2	8.611 ppm2	8 611 ppm2	7.996 ppm2	2 00	7 996 ppm2
48168E+03 ppm1	11537E+03 ppm1	13853E+03 ppm1	41855E+03 ppm1	12732E+03 ppm1	152138+03 ppm1	95815E+03 ppm1				12954E+03 ppm1 61869E+02 ppm1	48346E+03 ppml	30696E+03 ppm1	0.10430E+03 ppm1	10099E+03 ppm1	11734E+03 ppm1	28328E+O3 ppm1	18815E+03 ppml	61964E+03 ppm1	59739E+03 ppml	255548+03 ppm1		0 86259E+03 ppm1
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6 and name HN )) 5 and name HA )) 0 peak 4801 weight (	and name and name peak 4811	and name and name peak 4821	and name HN )) and name HA }) peak 4831 weight and name HN ))	and name peak 4841 and name	and name HHZ )) peak 4851 weight and name HN )) and name HA ))	peak 4861 and name	peak 4871 weight and name HB ))	seak 4881 weight and name HN )) and name HA ))	and name HN ))	peak 4901 weight and name HN )) and name HG1%) peak 4911 weight	and name and name peak 4921	and name and name peak 4931	and name HN )) and name HA )) peak 4941 weight	and name HN )) and name HA )) peak 4951 weight	s and name HN )) s and name HA )) peak 4961 weight 0	s and name HN )) s and name HG1 )) peak 4971 weight 0	s and name HW )) s and name HG2 )) peak 4981 weight 0	s and name HN )) s and name HB2 )) peak 4991 weight 0	and name HN )) and name HB1 )) peak 5001 weight	7 and name HN )) 5 and name HA )) 9 peak 5011 weight 0	and name HN )) and name HBt )	peak 5021 weight
{ 4801} 8egid "BrD" and resid 66 8egid "BrD" and resid 65 8egid "BrD" and resid 65 700 1800 1800	{ 4811}   segid "BrD" and resid 66   segid "BrD" and resid 65   segid "BrD" and resid 65   4821	segid "BrD" and resid 66 segid "BrD" and resid 65 3 300 2 700 2 200 { 4831}	{ segid "BYD" and resid 67 { segid "BYD" and resid 66 2 800 2.000 2 000 { 4.441} { segid "BYD" and resid 68	1 "BrD " and resid 67 2 900 2 100 11 "BrD " and resid 68	"BrD " and resid 6/   2 700	2 400 1 400 1 400 [ 4871] [ segid "BrD " and reaid 69 [ seqid "BrD " and reaid 68	4 500 4.500 1 000 [ 4881] segid "BrD " and resid 69 segid "BrD " and resid 68	o ug	0 220	. 77.	[ 4921] ( segid "BrD " and resid 70 segid "BrD " and resid 69 2 700 1 800 1 800	{ 4931} segid "BrD " and resid 73 segid "BrD " and resid 72 2 900 Z 100 Z 100	( segid "BrD " and resid 74 ( segid "BrD " and resid 73 3.500 3.100 2.000	segid "BrD " and reald 75 segid "BrD " and reald 74 segid "BrD " and reald 74 segid 74 segid 100 2 000 segid	segid "BrD " and resid 76 segid "BrD " and resid 75 3.400 2 900 2 100 { 4971}	( segid "BrD " and resid 76 ( segid "BrD " and resid 75 3 000 2 200 2 200 1 4 4 4 8 1 1	( segad "BrD " and resid 76 ( segad "BrD " and resid 75 3.200	segid "BrD" and resid 76 segid "BrD" and resid 75 2.600 1 700 1 700	segid "BrD" and resid 76 segid "BrD" and resid 75 2.600 1.700 1.700	[ 5011]   segid "BrD " and resid 77   segid "BrD " and resid 76   3.000   2.200   2.200	segid "BrD " and resid 77 segid "BrD " and resid 77 segid "BrD " and resid 76 segid	1 1 600 1 600 1) and read 79
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7.974 ppm2 5.542		.975 ppm2 1	9 676 ppm2 5 352 9 679 ppm2 2 978	359 ppm2 4	10 050 ppm2 4 805	8 498 ppm2 4 449	6 498 ppm2 4 697	8.496 ppm2 1 665	10 051 ppm2 8 489		8 743 ppm2 2 670	8 749 ppm2 4 816	8 566 ppm2 8 734	8 997 ppm2 4 656	9 477 ppm2 8 998	9 472 ppm2 4.481	8 206 ppm2 3 637	7.576 ppm2 3.637	8 205 ppm2 3 393	7 576 ppm2 3 393	7 634 ppm2 3.459	
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0.11556E+04 ppml 7.974 ppm2	ppm1 7 975 ppm2 2	volume 0 20373E+03 ppml 7.975 ppm2 1	Volume 0 38353E+03 ppn1 9 676 ppm2 5 Volume 0 92127E+03 ppm1 9 679 ppm2 2	volume 0 16116E+03 ppml 9 359 ppm2 4	ppml 10 050 ppm2 4	ppm1 8 498 ppm2 4	ppm1 8 498 ppm2 4	ppm1 8.496 ppm2 1	+01 volume 0 17034E+03 ppml 10 051 ppm2 8	-03 ppml 8 743 ppm2 2	.03 ppml 8 743 ppm2 2	+03 ppml 8 749 ppm2 4	+03 ppml 8 566 ppm2 8	+03 ppml 8 997 ppm2 4	-03 ppml 9 477 ppm2 8	-02 ppml 9 472 ppm2	ppml 8 206 ppm2 3	ppm1 7.576 ppm2	Volume 0.17538E+03 ppm1 8 205 ppm2 3	.03 ppml 7 576 ppm2 3	7 634 ppm2	11000E+01 volume 0 90206E+02 pem1 7 523 pem2 3
and name HA )) peak 4521 weight 0.11000E+01 volume 0.11556E+04 ppm1 7.974 ppm2 and name (HM ))	name Hill }} 4531 Weight 0 11000E+01 volume 0 71474E+02 ppml 7 975 ppm2 2 name Hill }} name HE 1}	4541 weight 0 11000E+01 volume 0 20373E+03 ppml 7.975 ppm2 1 name HN ))	4551 weight 0.11000E+01 volume 0 38353E+03 ppml 9 676 ppm2 5 name HN )) hame HN )) 9 679 ppm2 5	name HN )) 4571 weight 0 11000E-01 volume 0 1611GE-03 ppml 9 359 ppm2 4	name HN )) name HA )) 4581 weight 0 11000E+01 velume 0 12165E+03 ppml 10 050 ppm2 4	name HW )) ASST weight 0 11000E+01 Volume 0 11191E+03 ppml 8 498 ppm2 4	name HN )) name HR )) 4601 weaght 0 11000E+01 volume 0 18613E+03 ppml 8 498 ppm2 4	name HG2t) tname HG2t) 4611 weight 0 110008+01 volume 0 211288+03 ppm1 8.496 ppm2 1	name MN )) 4631 weight 0.11000E+01 volume 0 17034E+03 ppml 10 051 ppm2 8	Table No. / ) 4641 weight 0 11000B+01 volume 0 89496B+03 ppml 8 743 ppm2 2 7451 weight ()	Anamen H83)   1000E-01 volume 0 72876E-03 ppml 8 743 ppm2 2 1000E-01 volume NN ))	name HA ) 4651 weight 0 11000E+01 volume 0 14220E+03 ppml 8 749 ppm2 4 14651 weight 0 11000E+01 volume 0 14220E+03 ppml 8 749 ppm2 4 10 10 10 10 10 10 10 10 10 10 10 10 10 1	4691 weight o 11000B-01 volume o 96369B+03 ppml 8 566 ppm2 8 mann HW ).	4701 Weight 0 11000E+01 Volume 0 17192E+01 ppml 0 997 ppm2 4 inneme HR 1)	4711 weight 0 11000E-01 volume 0 35764E-03 ppml 9 477 ppm2 8 aname RN ).	4731 weight 0.11000E+01 volume 0 90728E+02 ppml 9 472 ppm2 mames HD1).	4741 weight D 110008+01 Volume D 104548+03 ppml 8 206 ppm2 3 3 aname HPD2 }	//www.insory 7 11000E+01 volume 0 97769E+02 ppml 7.576 ppm2 name HD21))	index haz ); 0.11000E+01 volume 0.17538E+03 ppml 8 205 ppm2 3 1701 well pm 1022))	name HE2 1) 10006+01 Volume 0 13182E+03 ppml 7 576 ppm2 3 name HE21)	name HG1 )/ 4781 weight 0 11000E+01 volume 0.11561E+03 ppml 7 634 ppm2 name HGP2)/	
and name HA )) peak 4521 weight 0.11000E+01 volume 0.11556E+04 ppml 7.974 ppm2 and name HM ))	KeBid 54 and hamme Hill )  1.800 peak 4511 weight 0 11000E+01 volume 0 71474E+02 ppml 7 975 ppm2 2  2.8241 55 and hamme HN )  Yeard 55 and hamme HN )	400 2 400 peak 4541 weight 0 11000E+01 volume 0 20373E+03 ppml 7.975 ppm2 1 and resid 56 and name HA ))	000 2.000 peak 4551 weight 0.11000E+01 volume 0 18353E+01 ppml 9 676 ppm2 5 and resud 55 and name HH )) and resud 55 and name HH )) 400 to 400 peak 4561 weight 0 11000E+01 volume 0 92127E+03 ppml 9 679 ppm2 2	and reald 57 and hame HN )) and reald 56 and hame HN )) 600 2 300 peak 4571 weight 0 11000E+01 volume 0 16116E+03 ppml 9 359 ppm2 4	and reeld 58 and name HN )] and reeld 57 and name HA )) 900 2 lOO peak 4581 weight 0 11000E+01 volume 0 12185E+03 ppml 10 050 ppm2 4	and resal 59 and name HM )) and resal 56 and name HA )) 900 2 100 peak 4591 weight 0 11000E+01 volume 0 11191E+03 pemi 8 498 ppm2 4	and resid 59 and name HN )) and resid 58 and name HB )) 600 2 300 peak 4601 weight 0 110005+01 volume 0 18613E+03 ppml 8 498 ppm2 4	and reard 59 and name HN )) and reard 58 and name HG21) and cased 58 and name HG21) 2 400 peak 4511 weight 0 11000E+01 volume 0 21128E+01 ppm1 8.496 ppm2 1	and resid 59 and name HN )) and resid 59 and name HN )) 600 2 300 peak 4631 weight 0.11000E+01 volume 0 17034E+03 ppml 10 051 ppm2 8 and resid 61 and name HN 10	Feb. 40 and name HW )   1 test 61 and name HW )   1 400 peak 4641 weight 0 11000E+01 volume 0 89496E+03 ppml 8 743 ppm2 2 resid 61 and name HW )	and resid 61 and hame HE3 1) and name HE3 1) and resid 61 and hame HE3 1) and resid 61 and hame HE 1) and resid 61 and hame HE 1)	and reald 60 and name (B) )) 700 2 200 peak 4661 weight 0 11000E+01 volume 0 14220E+03 ppml 8 749 ppm2 4 and resald 60 and name (B) ) and reald 6 and name (B) )	400 1 400 peak 4691 waight 0 11000E+01 volume 0 96369E+03 ppml 8 566 ppm2 8 and rand 62 and name HM ).	600 2 300 peak 4701 wright 0 11000E+01 volume 0 17192E+03 ppml 0 997 ppm2 4 cond creat 63 and name HN 1)	2 000 peak 4711 weight 0 11000E-01 volume 0 35764E-03 ppml 9 477 ppm2 8 reach 63 and name RN ).	200 1.900 peak 4731 weight 0.11000E+01 volume 0.90728E+02 pgml 9 472 ppm2 and resid 65 and name HD11)	100 2.000 peak 4741 weight 0 110008-01 volume 0 104548-03 ppml 8 206 ppm2 3 3 and name (FD2) and name (FD2) and name (FD2)	not account with interpretable of the control of th	and trans of a full name was placed to 11000E+01 volume 0.17538E+01 ppml 8 205 ppm2 3 3 00 2 300 peak was git 0.11000E+01 volume 0.17538E+01 ppml 8 205 ppm2 3 mnd resid 65 and name HD22))	The coard (S and hame HBB) 1 1000B+01 volume 0 13182B+03 ppml 7 576 ppm2 3 nnd read 20 and hame HB21)	and resid 24 and name HG1)  2.100 peak 478 weight 0 11000E+01 volume 0.1156IE+03 ppml 7 634 ppm2 and resid 2 and name HF231)	name HE22) name HG1 ) 4791 weacht 0 11000E+01 volume 0 90206E+02 mem1 7 523 mem2 3

4 976	3 516		3.679	3.676	2 818	2 697	2 576	2 807	2 702	2 580	2.777	3 144	5 042	4.764	4.839	3 135	2 776	8.679	4 426	3.997	3 107	4.813	
8 858 ppm2	8 923 ppm2		8 923 ppm2	8 416 ppm2	8 876 ppm2	8 875 ppm2	8 875 ppm2	8 714 ppm2	8 714 ppm2	8.714 ppm2	9 677 ppm2	9 679 ppm2	9 678 ppm2	9.680 ppm2	8 669 ppm2	8 669 ppm2	8 670 ppm2	7 979 ppm2	8 677 ppm2	B 674 ppm2	8.674 ppm2	8 936 ppm2	
0 12542E+03 ppml	0 54504E+02 ppml		0 10399E+02 ppm1	0 50137E+02 ppm1	0 53011E+03 ppm1	0 93326E+02 ppml	0 87608E+03 ppm1	0 10524E+03 ppm1	0 169255+03 ppm1	0 13613E+03 ppm1	0 51785E+03 ppm1	0.85031E+02 ppm1	0 15989E+03 ppm1	0 25357E+03 ppm1	0 81131E+02 ppm1	0 12127E+03 ppml	0 41579E+03 ppml	0 91814E+03 ppml	0 15786E+03 ppm1	0 17339E+03 ppm1	0 24048E+03 ppm1	0 16985E+03 ppm1	
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and name HN }) and name HA }) peak 5301 weight	and name HD21)) and name HB2 )) peak 5311 weight	and name and name peak 5321	and name HD21)) and name HB1 )) peak 5331 weight	and name HD22)) and name HB1 )) peak 5341 weight	and name HN )) and name HG1 )) peak 5351 weight	and name HB1 )) peak 5361 weight	and name and name peak 5371	and name HN )) and name HG1 )) peak 5381 weight	and name HN )) and name HB1 )) peak 5391 weight	and name HN )) and name HB2 )) peak 5401 weight	and name HN )) and name HB1 )) peak 5411 weight	and name HN )) and name HG1 )) peak 5421 weight	and name and name peak 5431	and name and name peak 5441	and name HN }) and name HA }) peak 5451 weight	and name HN )) and name HG1 )) peak 5461 weight	and name HN )) and name HB1 )) peak 5471 weight	and name HN )) and name HN )) peak 5481 weight	and name HN )) and name HA )) peak 5501 weight	and name HN )) and name HBI )) peak 5511 weight	and name HR2 )) and name HR2 )) peak 5521 weight	and name HN )) and name HA )) peak 5531 weight	d name
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3 995	8 687	3 997	4 404	2 704	4 685	2 042	1 086	0 749	4 743	3.697	3 551	4 817	4 449	1 903	4 921	3 268	5 012	3 639	4 815	4 857	2 782	2 614	552
8 681 ppm2	7 996 ppm2	8 006 ppm2	8 006 ppm2	8 006 ppm2	7 639 ppm2	2mdd 186 9	981	6 981 ppm2	5 658 ppm2	5 660 ppm2	9 658 ppm2	9 466 ppm2	9.463 ppm2	9.463 ppm2	7 515 ppm2	7 516 ppm2	8 423 ppm2	8 423 ppm2	8 572 ppm2	8 357 ppm2	8.354 ppm2	8 354 ppm2	8 355 ppm2
0 14659E+03 ppml	10403E+04 ppm1	85899E+01 ppm1	15955E+03 ppml	0 16421E+03 ppm1	77456E+02 ppm1	81882E+03 ppml		12101E+03 ppm1	0 113648+03 ppml	10752E+03 ppm1	41394E+03 ppm1	19086E+03 ppm1	63498E+02 ppml	0 11050E+03 ppm1	79848E+02 ppm1	0.12439E+03 ppml	S0221E+02 ppm1	0 14503E+03 ppml	84494E+02 ppm1	874572+03 ppm1	23456E+03 ppm1	19424E+03 ppml	67695E+03 ppml
11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	0 11000E+01 volume 0	0.11000E+01 volume 0	11000E+01 volume 0	volume 0	11000E+01 volume 0	11000B+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	0 11000E+01 volume 0	11000E+01 volume 0	0 11000B+01 volume 0	0.11000E+01 volume 0.	11000E+01 volume 0	0 11000E+01 volume 0	0 11000E+01 volume 0	0 11000B+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0
Soll weight 0	name HN )) 5041 weight 0	name HD1 )) 5061 weight 0 name HN ))	name HA )) 5071 weight 0 name HN ))	name HB2 // 5091 weight name HN //	5101 weight name HN ))	5111 Weight 0	5121 weight 0	5131 weight 0	S141 weight 0 name HN )}	S151 Weight 0	Sici weight o	1 name Hu )) 5171 weight 0	name HA )) 5181 weight name HN ))	name HG2%) 5191 weight 0	S201 weight	5211 weight name HN ))	5221 weight 0	5231 weight	5241 weight	5251 weight	5261 weight 0	name HB2   )   5271 weight 0   name HN   )	iname HN )) 5281 weight 0
z 200 p	1 400 pe	0 200 Pe	2.200 pe	2 300 estd 81	1 800 pe	1 600 pe	600 2 300 pe and resid 82	2 100 pe resid 83 resid 82	2 100 per resid 83	2 000 pe	2 000 pe	resid 83 2 300 pe resid 84	resid 83 1 900 pe resid 84	resid 83 2 000 pe resid 85	1 800 pe	2.100 pc	800 1.600 and resid 86	and resid 85	resid 85 1 900 pe resid 88	residas	2 400 pe	and resid 87 600 2 300 pe	and resid 87
(( eegid "BYD " and 3.300 2.700 SSI { 5041}	a (1 ~ 0	SSI { 5071} (( segid "BrD '( segid "BrD '	(( segid "BrD " and : 3 300 2 700 SSI ( 5091) (( segid "BrD " and :	({ segid "BrD 2 2 SSI { 5101} } ({ segid "BrD '	SSI { 5111}	SSI { 5121} (( peepld "ByD '	3 200 { 5131} segid "BrD				2 cs up 1	segid "BrD 3 200 { 5181} segid "BrD	segid "BrD 3 600 { 5191} segid "BrD	( segid "BrD " and 3.500 3 100 ( segid "BrD " and ( segid "BrD " and		SSI { 5221} ( seegld "BrD " and	3.900 3 3.900 3 SSI { 5231} (( segid "BrD "	3.300 'BrD 'SrD 'S	( segid "BrD" and 3 200 3 200 ( segid "BrD" and	- m m -			segid "BrD 2.600

		2 812	2.665	8 185	8.89	1 965	5 90	4 839	2 417	5 178	3 067	3 067	3 028	3 028	4 807	2 113	2 279	0 416	1 048	0 667	1 293	0 440
	•	8 217 ppm2	8 217 ppm2	8 668 ppm2	8 376 ppm2	8 377 ppm2		8 884 ppm2	8 876 ppm2	8 381 ppm2	7 926 ppm2	7 829 ppm2		7 477 ppm2		072	072	9 076 ppm2 7 996 ppm2	966	7 994 ppm2	7 996 ppm2	7 996 ppm2
		0 37977E+02 ppml	0 72974E+03 ppml	0 818015+03 ppml	0 12247E+03 ppm1	0 28680E+03 ppm1	765198+02	o 60302E+03 ppm1	0 21223E+03 ppml	0 81728E+03 ppml	0 58235F+02 ppml	0 10842E+03 ppml	0 35552E+02 ppml	0 59289E+02 ppml	15569E+03	45519E+03	60681E+03	0 24628E+03 ppml 0 24153E+03 ppml	64225E+03	0 10124E+03 ppm1	0 26923E+03 ppml	0.10789E+03 ppml
	•	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0.11000E+01 volume	0 11000E+01 volume	-01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 110006+01 volume	volume	volume	volume	volume	volume	O 11000E+01 Volume O.11000E+01 Volume	volume	0 110008+01 volume	0 11000E+01 volume	0 11000E+01 volume
The state of the s	(5781) segid "BED" and resid 113 and name HN )) Weerld "BED" and resid 112 and name HG2 ))	4 100 4 100 1.400 peak 5781 ( 5791) and resid 113 and name	segad 'BrD " and reald 112 and name 12	esid 113 and name 1 600 peak 5801 csid 114 and name	esid 113 and hame 2.100 peak 5811 esid 114 and name	begick styl and reside 11 to 10 to 2.300 or 2.300 or 2.300 or 2.400 or 2.40	esid 115 and name esid 116 and name 1 800 peak 5851	esid 117 and name esid 116 and name 1 700 peak 5861	esid 117 and name esid 116 and name 2 400 peak 5871	esid 117 and name 1 600 peak 5881 esid 79 and name	( segid BrD " and reald 99 and hame HG1 ) )  1 900 3 800 1 600 peak 5891 weight  1 6501 3 800 are segid BrD " and restd 79 and name HR22) )  1 each d'BrD " and restd 79 and name HR22) ( segid BrD " and restd 79 and name HR22)	2 000 peak	1 300 peak 5911 esid 29 and name	1.700 peak send 70 and	2 200 peak 5931 e91d 18 and name	1 800 peak 5941 said 18 and name	1 700 peak 5951 eald 18 and name	2 200 peak 5961. seld 78 and name 2 200 peak 5971.	rsid 78 and name rsid 78 and name 1 700 peak 5981	5370 and resid 78 and name HW  ) segid "BrD " and resid 78 and name HD2t) 3 500 3 100 2 000 peak 5991 weight (finn)	reald 78 and name cald 78 and name 2 200 peak 6001	weighd Tapp and read 78 and name HD19) segid Tapp and read 78 and name HD14) 3.500 3 100 2 000 peak 6011 weight (6021) eegid Tapp and read 115 and name HN ))
	ASS	ASS	AS91	ASS	ASSI	ASS.	SSA ) P P P P	) SSA	) ) See A	ASS ASS	) 558	ASS	. ASS 	ASS } }	ASS { }	ASS (	A59.	ASS.	ASS (		) SSW	ASS
	4 003	3 663	4 438	2.204	4 940	3 484	4,256		ri (	1 917	4	4 934	4 568	3 896	4 447	3 671	4 818	4 615	4 428	2 353	eo	4 602
	8 936 ppm2	8.936 ppm2	8 669 ppm2	zwdd 699 8	8 513 ppm2	8.513 ppm2	9 156 ppm2	8 696 ppm2	7 763 ppm2	7 763 ppm2	8 488 ppm2	9 740 ppm2	8 961 ppm2	8 980 ppm2	8 526 ppm2	8 526 ppm2	8 574 ppm2	8 714 ppm2	8 168 ppm2	8.170 ppm2		8.217 ppm2 8.216 ppm2
	0.16699E+03 ppm1	0 29941E+03 ppm1	0 14856K+03 ppm1	0.56660E+03 ppm1	0 99135E+02 ppm1	0 18321E+03 ppm1	0 10380E+03 ppm1	0 10037E+03 ppml		0 162508+03 ppm1	0 16160E+03 ppml	0 94653E+02 ppm1	0 106208+03 ppml	0 25814E+03 ppml	0 17635E+03 ppm1	0 68256E+03 ppml	0.77637E+02 ppm1	0 78233E+02 ppml	0.28368E+03 ppml	0 13983E+04 ppm1	0.38572K+03 ppml	0 464968+03 ppm1 0 636048+02 ppm1
	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume		0.11000E+01 volume	11000E+01 volume	0 11000E+01 volume	0.11000E+01 volume	0 11000E+01 volume	) 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 110008+01 volume	) 11000E+01 volume	0.11000E+01 volume		0.11000E+01 volume 0.11000E+01 volume
-	segid "BFD" and resid 98 and name HB1 )) 3 200 2 600 2 300 peak 5541 weight (5551)	reald 99 and name HN )) reald 96 and name HB2 )} 2 loo peak 5551 weight	5304    2   100   2   2   2   2   2   2   2   2   2	resid 100 and name HN )) resid 99 and name HB\$ ) 1 700 peak 5571 weight	5.881   4.881   9.88	reald 101 and name HN reald 100 and name HB1 2 300 peak 5591 well reald 102 and name HN	celd 101 and name HA )) 2.000 peak 5601 weight esid 103 and name HN )) esid 102 and name HN ))	2 000 peak 5611 weight eaid 104 and name HN )) esid 103 and name HA ))	2 300 peak 5621 weight esid 104 and name HN ) celd 103 and name HBI ))	name HN )) name HB2 )) 5641 weight	esid 105 and name HN }} esid 104 and name HA }} 2 300 peak 5651 weight	celd 106 and name HN )) celd 105 and name HA )) 1.900 peak 5661 weight	name HN )) name HA )) 5671 weight	esid 107 and name esid 106 and name 2 200 peak 5681	cold 108 and name HN )) cold 107 and name HA )) 2 300 peak 5691 weight	esid 108 and name HN )) esid 107 and name HB1 )) 1 700 peak 5701 weight	name HA )) 5711 weight	Pard 110 and name HA )) 1.800 peak 5721 weight said 111 and name HN ))	# # # # # # # # # # # # # # # # # # #	1 300 peak 5741 weight 1 300 peak 5741 weight eeld 111 and name HN ))	2 000 peak 5751 weight tead 113 and name HN )) cend 112 and name HA ))	1 800 peak 5761 weight cond 113 and name HN )) cond 112 and name HG1 )) 1.700 peak 5771 weight

į	2.771	2 764	3 068	2 336	2 579	2.497	2.629	2 155	2 254	3 369	1 310	1 808	2 002	2 152	2 495	2 376	1.491	1 521	2.320	2 002	1 668	2 292
	8 5/0 ppmz 8 681 ppm2		9.120 ppm2	8 006 ppm2	8 006 ppm2	8 006 ppm2	8 763 ppm2	8 764 ppm2	9 053 ppm2	5 055 ppm2	9 156 ppm2	9 155 ppm2	9 155 ppm2	9 157 ppm2	8 045 ppm2	8 045 ppm2	8 049 ppm2	9 679 ppm2	9 680 ppm2	9 680 ppm2	9 456 ppm2	9 455 ppm2
	: 0.39163E+03 ppml : 0.73947E+03 ppml	0 104375+03	s 0 19029E+03 ppml	s 0 12866E+03 ppm1	s 0 38416E+03 ppml	* 0 55298E+03 ppml	) 0 12971E+03 ppm1	0 45372E+03 ppm1	s 0 84495E+02 ppml	b 0 12497E+03 ppml	e 0 19704E+03 ppml	s 0 88089E+03 ppml	a 0 47200E+03 ppml	0 16630E+03 ppml	c 0 37491E+03 ppm1	s 0 13407E+03 ppm1	≥ 0 91167E+02 ppm1	e O 172826+03 ppml	e 0 746888+03 ppm1	e O 21719£+O3 ppml	e 0 16857£+03 ppml	e O 10653E+O4 ppml
	0.11000E+01 Volume 0 11000E+01 volume		0.11000E+01 volume	0.11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0.11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0.11000E+01 volume	0.11000E+01 volume	0.11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0.11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume
and resid 87 and name HN ))	2 000 peak 6281 cald 79 and name cald 79 and name 1 600 peak 6291	esid 80 and name esid 79 and name 2.000 peak 6301	nd resid 23 nd resid 23 0 2 300	nd resid 80 and name nd resid 80 and name 0 2 100 peak 6321	and resid 80 and name HN )) and resid 80 and name HB1 )) 00 2 000 peak 6331 weight	and resid 80 and name HN )) and resid 80 and name HE2 )) 700 1 700 peak 6341 weight	ind resid 66 and name ind resid 66 and name 100 peak 6351	nd resid 66 and name ind resid 66 and name 100 peak 6361	nd resid y and name ind resid 9 and name in 1 900 peak 6371	ind resid 102 and name	nd resid 102 and name 0 2 400 peak 6391 and resid 102 and name	1 400 peak 6401 esid 102 and name	nd resid 102 and name 10 1 800 peak 6411 ind resid 102 and name	ind resid 102 and name 10 2 300 peak 6421 ind resid 73 and name	2 000 peak 6431 wer. 2 000 peak 6431 wer. 2 01d 73 and name HN	2 100 peak 6441 2 sand name 1914 73 and name	1 900 peak 6451 esid 56 and name	2 300 peak 6461 esid 56 and name	1 600 peak 6471 resid 56 and name	2 400 peak 6481 1 resid 22 and name	2 300 peak 6491 resid 22 and name	resid 22 and name
ASSI { 6281} (( oegid "BrD " a (( degid "BrD " a	2.800 2.000 ASSI { 6291 { segid "BrD" and r ( segid "BrD" and r 2 500 1 600	ASSI ( 6701) (( segid "BrD " a (( segid "BrD " a 3.500 3 10	ASSI ( 6311) (( segid "BrD " and (( segid "BrD " and 3 200 2 600	ASSI ( 6321) (( segid "BrD " a (( segid "BrD " a 3 400 2 90	ASSI { 6331} ({ aegid "BrD " and r ({ segid "BrD " and r 2 800 2 000	{ 6341} segid "BrD " segid "BrD " 2 600 1 '	((segad "BrD" and ((segad "BrD" and (segad "BrD" and 3 400 2.900 ASSI { 6361}	86910 2 700 ( 637	( seejd "BYD " and ( seejd "BYD " and 3 600 3 200 ASSI ( 6.381)	segid "BrD 3 400 2 { 6391} segid "BrD	segid "Br 3.100 { 6401} segid "Br	({ segid "BrD " and r 2 400 1 400 ASSI ( 6411) ({ segid "BrD " and r	( segid "BYD" a 2 700 1 80 ASSI { 6421} ( segid "BYD" a	segid "BrD 3 200 2 { 6431}	((segid "BFD" s 2 800 2 00 ASSI { 6441} ((segid "BFD" s	3 400 ( 6451) segid "BrD	ASSI { 6461} ( 6991d **RYD ** and x ( 6991d **RYD ** and x ( 6991d **RYD ** and x (  6991d **RYD ** and x (  6991d **RYD ** and x (  6991d **RYD ** and x (  6991d **RYD ** and x (   6991d **RYD ** and x (   6991d **RYD ** and x (   6991d **RYD ** and x (   6991d **RYD ** and x (   6991d **RYD ** and x (   6991d **RYD ** and x (   6991d **RYD ** and x (   6991d **RYD ** and x (    6991d **RYD ** and x (    6991d **RYD ** and x (    6991d **RYD ** and x (    6991d **RYD ** and x (    6991d **RYD ** and x (    6991d **RYD ** and x (    6991d **RYD *** and x (    6991d ***) a	3 200 2 60 ASSI { 6471} (( segid "Brb " s	2 500 1 ( 6481) eeejid "BrD "	3 100 { 6491} megid "BrD	3.200 { 6501} segid "BrD	segid "BrD 2 400 { 6511} segid "BrD
2 167	1 318	1.921	1.525	1 420	1 679	1 261	1.116	1 812	1 144	0 66 0	1 405	4 667	8.547	8 532	2 489	1 808	1 596	2 495	2 355	1 659	1 605	1 226
8 355 ppm2	8 354 ppm2	8.086 ppm2	8 083 ppm2	8 084 ppm2	8 714 ppm2	8 714 ppm2	8 714 ppm2	564	\$64	8 564 ppm2		8 544 ppm2	8 146 ppm2	9 455 ppm2	8 514 ppm2	8 513 ppm2	8 513 ppm2	8 545 ppm2	8.545 ppm2	8 556 ppm2	8 556 ppm2	8 545 ppm2
o 18336E+03 ppm1	0 43402E+03 ppm1	0.29943E+03 ppm1	0 27021E+03 ppm1	0 86711E+03 ppm1	0 25527E+03 ppm1	0 43268B+03 ppm1	0 13013E+03 ppm1		17790E+03	0 137598+03 ppm.1		0 62145E+03 ppm1	0 39694E+03 ppm1	0 40962E+03 ppml	0 10700E+04 ppm1	0 39771E+03 ppm1	0 49123E+03 ppm1	0.63964E+03 ppm1	0 13646E+04 ppm1	0 22794E+03 ppm1	0 60538E+03 ppml	0 30098E+03 ppm1
0.11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000Б+01 volume	0.11000E+01 volume	0 11000E+01	0 11000B+01	0 11000E+01 Volume 0 11000E+01 Volume	•	0	0 11000E+01 volume	ė	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0.11000E+01 volume
resid 115 and name 2.300 peak 6021	and resid 115 and name and resid 115 and name obe 2 000 peak 6031	BED and resid 116 and name 2 100 2 100 peak 6041  1 10 and resid 116 and name 1 and resid 116 and name	d resid 116 and 2 200 peak d resid 116 and	1 600 peak 6061 esid 110 and name	d resid 110 and 2 200 peak d resid 110 and	2 000 peak 6081 2 000 peak 6081 asid 110 and name	1d "BFU" and resid 110 and name HDIV) 00 2 000 2 100 peak 6091 weight 101 4 BPU" and resid 60 and name HN )) 1d "BFU" and resid 60 and name HN ))	peak 6101 and name	2 300 peak said 50 and	2 200 peak 5121 said 50 and name said 50 and name 2 200 peak 5131	281d 50 and name 281d 50 and name 1 400 peak 6141	esid 21 and name esid 20 and name 1 700 peak 6151	161) 1d "BrD" and resid 20 and name HM )) 1d "BrD" and resid 21 and name HW )) 1d "BrD" and resid 21 and name HW ))	eeld 22 and name	esid 101 and name esid 101 and name 1 400 peak 6201	(211) 11d **SED** and Yeold 101 and name HN )) 11d **BED** and Yeold 101 and name HG12)) 100 **Z 000 Z 000 peak 6211 weight	124 BrD and resid 101 and name HN )) 114 BrD and resid 101 and name HG2 <sup>4</sup> ) 100 1 800 peak 6221 weight	144 BED and resid 21 and name HN )) 114 BED and resid 21 and name HB )) 100 1.700 peak 6231 weight	124.] 124 BPD " and resid 21 and name HG11) 114 BPD " and resid 21 and name HG11) 100 1.300 1.300 peak 6241 weight	104 BrD " and regid 21 and name HN )) 114 BrD " and regid 21 and name HG12) 00 2 400 2 400 peak 6251 weight	6261) egid "BrD" and resid 21 and name HN )) egid "BrD" and resid 21 and name HG2t) egod 1700 1700 peak 6261 weight	egid "BFD" and resid 21 and name HN )) egid "BFD" and resid 21 and name HDI) 900 2 100 2 100 peak 6271 weight
(	(( seg ( seg ( seg ASSI ( 6	2 C C - 2	(( segid 3 000 ASSI { 6061 (( segid	( seg 2 5 ASSI ( 6 ( seg	(( seg 3 0 ASSI ( 6	( seg ASSI ( 6	ASSI ( 699)	2 , 2 , ( sec ) ( sec ) ( sec )	3 2 ASSI { 6 (( 869	3 3 A A S S S S S S S S S S S S S S S S	SSI (	3SI ( 1 ( see; ( see; ( see; 2 6	581 (. (( sec (( sec 2 6	SSI ( (( Bec (( Bec 2 (	ASSI ( 6 ( 8 6) ( 8 6) ( 8 6) ( 8 6) ( 8 6) ( 8 6) ( 8 6) ( 8 6) ( 8 6)	SSI (	( 866	( ) 860	ASSI ( 1869)	)   Reck	~ # # # 4.	ASSI { ( Bec) (

1 879	2 271	4 940	2 708	2.193	2.336	2 173	1.439	2.359	0 745	1 862	2 613	2 608	2 909	2.932	2 704	2 850	4 690	4 849	1 980	1 818	1 786	5 591
9 188 ppm2	9 187 ppm2	9 021 ppm2	8 674 ppm2	8 674 ppm2	8 573 ppm2	8 573 ppm2	8.574 ppm2	8 422 ppm2	8 423 ppm2	8 423 ppm2	8 695 ppm2	7 763 ppm2	8.307 ppm2	7.762 ppm2	8 763 ppm2	7 734 ppm2	9 036 ppm2	8 731 ppm2	8 375 ppm2	8 375 ppm2	8.375 ppm2	9 004 ppm2
45358E+02 ppm1	38484E+03 ppm1	0.26617E+03 ppm1	12859E+04 ppm1	32919E+03 ppm1	11797E+04 ppm1	19151E+03 ppm1	70793E+02 ppm1	51142E+03 ppm1	13112E+03 ppm1	59192E+02 ppml	24153E+03 ppm1	18108E+03 ppm1	14027E+03 ppml	0.41580E+02 ppm1	17814E+03 ppm1	32270E+03 ppm1	78564E+03 ppm1	16736E+04 ppm1	35413E+03 ppm1	24666E+03 ppml	24666E+03 ppm1	0 32203E+03 ppm1
• 0.11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	0.11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	0.11000E+01 volume 0	0.11000E+01 volume 0	0 11000E+01 volume 0	0.11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	0.11000E+01 volume 0	0.11000E+01 volume 0	11000E+01 valume 0
esid 19 and name HN )} esid 19 and name HG1 )} 1 500 peak 6771 weight	esid 19 and name KN )} esid 18 and name KG )} 2 000 peak 6781 weight 0	( 6/9) and resid 12 and name HN )) segid "BED" and resid 11 and name HA )) 3 000 2.200 2.200 peak 6791 weight 0 (680)	esid 97 and name HN )) esid 97 and name HB1 )) 1 300 peak 6801 weight 0	eald 97 and name HN )} eald 97 and name HG2 }} 2 100 peak 6811 weight 0	esid 109 and name HN )) esid 109 and name HBl )) 1 300 peak 6821 Weight 0	and resid 109 and name HN )) and resid 109 and name HB2 )) 600 2 300 peak 6831 weight 0	and resid 109 and name HN )) and resid 109 and name HG1 )) 400 1 800 peak 6841 weight 0	esid 86 and name HB1 )) 1 800 peak 6881 Weight 0	and name HG2 }) peak 6891 weight and name HN })	eaid 86 and name HD1 )) 1 700 peak 6901 weight 0 esid 103 and name HN })	celd 103 and name HG1 )) 2 200 peak 6921 weight 0 eeld 104 and name HN ))	2 300 peak 6931 weight 0 eaid 48 and name HN }}	and name HG1 )) peak 6941 weight and name HN ))	esid 48 and name HG1 )) 1 400 peak 6951 weight esid 66 and name KN ))	2 300 peak 6961 weight eaid 35 and name HN ))	and name HB1 )) peak 6971 weight and name HN ))	esid 53 and name HA )) 1 600 peak 6981 weight 0 ceid 38 and name HN ))	csid 37 and name HA )) 1 200 peak 6991 weight 0 esid 51 and name HN ))	esid 51 and name HB1 )) 2 100 peak 7001 weight 0 esid 51 and name HN ))	2.200 peak 7011 weight esid 51 and name HN ))	esid Sl. and hame HG2  ) 2 200 peak 7021 weight esid 52 and name HN ))	resid 52 and name HA )) 2 100 peak 7041 weight 0 resid 52 and name HN ))
ASSI (677) (( segid "BrD ( ( segid "BrD	( pegid ( pegi	ASSI ( 679; ( 6991d ( 6991d ( 6901d ASSI ( 680)	(( segid ( segid ( segid ( segid ( segid ( segid	(   aegid (   aegid (   aegid (   aegid   aegid (   aegi	( segat ( sega	((seqid "BLD (seqid "BLD (seqid "BLD ) 3 200 2 3 200 8 20 20 8 20 20 8 20 20 8 20 20 8 20 20 8 20 20 8 20 20 8 20 20 8 20 20 20 20 20 20 20 20 20 20 20 20 20	( segid "BYD" ( segid "BYD" ( segid "BYD" ) 3.700	( castal (	) ( segid ) 3 400 ( \$ 490 ( \$ 690) ( \$	({ begid 3.800 ASSI { 692) (( e991d	(( ecg.td 3 000 2 ASSI ( 693) ( ( 684)	(   megid   3 200   3	Dipos ) 3 300 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	bagse )) A 100 ASSI (696)	( begid 3 200 ASSI 4 6971 ( eegid	( segid 2.900 ASSI ( 6.990 ( segid	( aegid 2.500 ASSI ( 6991	( aegid 200 200 ASSI ( 700) ( aegid	( pegid 2 2000 ASSI ( 7011) ( 4 7011)	( aegid 3931 ( 702) A931 ( 702)	( 8651d 1 3 000 1 ASSI ( 704) 1 ( 8651d	(( pegid "E 2 900 ASSI { 7051} (( segid "F
2.693	2 366	1 478	1 674	2 532	2 439		2 06		3 032	1 652	1 652	2 661		2 411	2 537	2.099	2.288	2 482	2.376	1.922	2 002	2 325
9 455 ppm2	9 455 ppm2	9.473 ppm2	9 472 ppm2	9 473 ppm2	9 472 ppm2		8 609 ppm2			7 762 ppm2					7 763 ppm2	7 763 ppm2	7 763 ppm2	8 168 ppm2	8.170 ppm2	8 168 ppm2	8 168 ppm2	
0 11000E+01 volume 0 47530E+03 ppm1	o 11000E+01 volume O 69056E+02 ppml	0 11000E+01 volume 0 19269E+03 ppm1	0 11000E+01 volume 0 21627E+03 ppml	0 11000E+01 volume 0 86099E+03 ppml	0 11000E+01 volume 0 26899E+03 pFm1	0 80229E+03	0 11000E+01 volume 0 24747E+03 ppml	volume	0 11000E+01 Volume 0 12087E+04 ppml		0 12406E+03	volume 0 10941E+04	11000E+01 volume 0 45034E+03	volume 0 82950E+02	0 59758E+03	0 11000E+01 volume 0 24911E+03 ppm1	0 11000E+01 Volume 0.30408E+03 ppm1	0 110005+01 volume 0,668138+03 ppm1	0 11000E+01 Volume 0 98067E+03 ppm1	0 11000E+01 volume 0 88731E+02 ppm1	0 11000E+01 volume 0.16392E+03 ppml	
reaid 22 and name HBI )) 1 800 peak 6511 weight reaid 22 and name HN ))	peak 6521 weight and name HN ))	esid bs and name HUZK) 2 300 peak 6531 weight eeald 63 and name HN )) eeald 63 and name HN )	2 400 peak 6541 weight esid 63 and name HN ))	1 600 peak 6561 weight esid 63 and name HN ))	2 200 peak 6571 weight 2 241 and name HN ))	1 600 peak 6581 weight seid 14 and name HN ))	2 200 peak 6591 weight ceard 14 and name HB2 )	esid 14 and name HN )) esid 14 and name HD1%) 2 300 beak 6611 weight	esid 24 and name HN )) esid 24 and name HG2 )) 1.300 peak 6621 weight	esid 49 and name HN }) esid 49 and name HGit) 2 400 peak 6631 weight	resid 50 and name HN )) resid 49 and name HG1%) 2 100 peak 6641 weight	esid 64 and name HN }) esid 64 and name HB1 )) 1 400 peak 6651 weight	eald 64 and name HN )) eald 64 and name HGl )) 1.800 peak 6661 weight	and name HN )} and name HD1 )} seak 6671 weight	esid 104 and name HN )) esid 104 and name HB1 }) 1 700 peak 6681 weight	esid 104 and name HN }) esid 104 and name HG1 }) 2.200 peak 6691 weight	esid 104 and name HN )) esid 104 and name HD1 )) 2 100 peak 6701 weight	eald 111 and name HN )) eald 111 and name HB1 )} 1 700 peak 6711 weight	esid III and name HN )) esid III and name HB2 )) I.400 peak 6721 weight	resid 111 and name HN }) resid 111 and name HGZ }) 1.900 peak 6731 weight	ceald 111 and name HN )) ceald 111 and name HG1 )) 2 300 peak 6741 weight	d reald 19 and name HN )) d reald 19 and name HB1 )) 1 800 peak 6761 weight

#### DGS1D314.022GG

2 162	4 652	3 874	3 896	2 139	1 084	0 414	2 336	1 967	4 286	4 895	9 450	9 130	4 371	4 639	4 777	4 449	2 991		1 640	1 790	4.324	4.122	4 143
2mqq 868 8		8 544 ppm2	9 456 ppm2	9 186 ppm2	9 189 ppm2	9 187 ppm2	8 146 ppm2	8 147 ppm2	9 120 ppm2	9 118 ppm2	8.147 ppm2	8 545 ppm2	8 661 ppm2	9 196 ppm2	8 170 ppm2	8,166 ppm2	9 196 ppm2	è	736 ppm2	9 197 ppm2	8.001 ppm2	8 001 ppm2	7 763 ppm2
85197E+02 ppml	107708+03 ppm1	0.16933E+03 ppm1	72924E+02 ppm1	40235E+03 ppml	63600E+02 ppm1	71915E+02 ppm1	16507E+03 ppml	13044E+03 ppm1	90645E+02 ppml	11524E+03 ppml	81392E+02 ppm1	42834E+02 ppm1	16448E+03 ppml	12059E+03 ppml	17746E+03 ppml	92661E+02 ppm1	0.67212E+03 ppm1	3	.31151E+03 ppmi	21302E+03 ppm1	11281E+03 ppm1	21754E+03 ppml	54216E+02 ppml
11000E+01 volume 0	11000E+01 volume 0	0.11000E+01 volume 0.	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	.11000E+01 volume 0	11600E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0.		11000£+01 Volume 0.	.11000E+01 volume 0	11D00E+01 volume 0	11000E.01 volume 0	11000E+01 volume 0
and name HN )) and name HB2 )} peak 7341 weight 0 1	name HN )) name HA )) 7351 weight 0		٥	name HB1 )) name HB1 )) 7381 weight 0	name HN )) name HD1%) 7391 weight 0	HD24) Weight 0 HN ))	name HBI )) 7411 weight 0 name HN ))	name HB2 )) 7421 weight 0 name HN ))	name HA )) 7431 weight 0 name HN ))	name HA )) 7441 weight 0 name HN ))	name HN )) 7451 weight 0	name HN )) 7471 weight 0	name HN }) name HA }) 7491 weight 0	name HN }) name HA }) 7501 weight 0	name HN )) name HA )) 7511 weight 0	and name HN )) and name HA }) peak 7521 weight 0 1	name HN )) name HB )) 7531 weight 0	•	/541 Weight D name HN ))	7551 weight 0	name HD1 )) 7561 weight 0 name HN ))	name HD2 )) 7571 weight 0 name HN ))	and name HA )) peak 7581 weight 0 1 and name HN ))
and resid 15 and resid 14 00 1 900	and resid 18 and resid 14 100 2 000	and resid 21 and resid 18 600 2.300	and resid 22 and resid 18 400 1 800 pe	ind resid 19 ind resid 18 10 2 000 pe	ind resid 19 ind resid 18 io 1 700	ind resid 18	and resid 19 2 300 and resid 20	2 100 resid 19	1 900 1 900 resid 23	resid 20 2 100 resid 20	1 900	1 400	esid 24 esid 21 2 300	esid 26 esid 23 2 100	resid 27	esid 28	eard 26 eard 25 1 700 pe	esid 26	2 100 esid 26	2 400 resid 43	and resid 44 900 2 100 and resid 43	and resid 44 to 2 400 and resid 49	and resid 46
ASSI ( 7341) (( segid "BrD (( segid "BrD 3 600 3	ASSI { 7351} (( segid "BrD " 6 (( segid "BrD " 6 3 500 3 10	ASSI { 7361} (( segid "BrD " (( segid "BrD " 3 200 2 ASSI { 7371}	segid "E segid "E 3 700 ( 7381)	segid segid 2 800 { 739	segad segad 3 800 ( 740)	ASSI { 7411}	segid 3 200 { 742 8egid	(( segid "Br 3 400 ASSI { 7431} (( segid "Br	(( segid "BrD " and 3 3 600 3 200 ASSI { 7441} (( segid "BrD " and 3	(( segid "BrD " and r 3 400 2 900 ASSI { 7451} (( segid "BrD " and r	(( eegad "Br 3 600 ASSI ( 7471) (( segad "Br	(( segid "BrD " and 4.100 4 100 ASSI { 7491}	(( segid "BrD " and r (( segid "BrD " and r 3,200 2 600 ASSI { 7501}	(( segid "Br (( segid "Br 3.400 ASSI { 7511}	(( segid "BrD " and r (( segid "BrD " and r 3 200 2 600 ASSI [ 7521]	(( segid "BrD " and ) (( segid "BrD " and ) 3 600 3 200 ASSI ( 7531)	(( segid "BrD " and z (( segid "BrD " and z 2.600 1.700	ASSI { 7541} ([ segid "BxD " and x ( segid "BxD " and x	ASSI { 7551} (( Begid "BrD " and ( Begid "BrD " and	3 100 ASSI ( 7561) (( segid "Br	,	segid "Br 3 100 { 7581} segid "Br	( segid 'BrD " 5 1 2 5 0 1 3 6 1 2 5 0 1 3 6 1 2 5 1 1 2 5 1 1 1 1 1 1 1 1 1 1 1 1 1
																						ستنس	,
3.641	3 514	8 356	4 482	4 230	3 997	3 228	2 700	2 504	2 947	2 827			2 411		2 463	2 092	4 475	2 422	3 399	8 817	4 770	1 393	2.454
9.004 ppm2	9.003 ppm2	9.004 ppm2	9 004 ppm2		9 003 ppm2		8.498 ppm2	8 499 ppm2	9 359 ppm2	3.358 ppm2			20.00		9 195 ppm2	9 196 ppm2	8 685 ppm2	8 883 ppm2	8.802 ppm2	8 597 ppm2	8 794 ppm2		
0.48728E+03 ppm1	725508+03 ppm1	635078+03 ppm1	26640E+03 ppm1	10263E+03	572878+02 ppml	12335E+03	11956E+03 ppml	17215E+03 ppm1	94732E+03	757188+03	931478+02		28923E+02	13023E+03	15703E+	99010E+02 ppml	20621E+02 ppml	12456E+03 ppm1	111078+63 ppm1	28889E+03 ppm1	96679E+02 ppm1	899798+02 ppm1	
0.11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume	11000E+01 volume 0	11060E+01 volume	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	volume		o o no	volume	. volume	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	0.11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	volume
name HB1 )) 7051 weight name HN ))	name 7051 name	and name HN )) peak 7071 weight 0 and name HN )) and name HA ))	7091 пате пате	7101 weight 0 name HN )}	7111 weight 0 name HN )) name HG2 ))	name HN )) name HG1 )) 7151 weight 0	HN )) HB1 )) weight 0	and name HN )) and name HB2 )} peak 7171 weight 0	and name HN }) and name HB1 }) peak 7181 weight 0	0	name HN )} name HG1 )}	name HN ))	7211 weight name HN )) name HD2 ))	7221 weight 0 name HN ))	7231 weight 0 name HN )) name HD1 ))	7241 weight 0 name HN ))	7261 weight 0	7271 weight 0	name HBI  ) 7281 weight 0	name HN )) name HN )) 7301 weight	name HN )) name HA )) 7311 weight 0	name HN )) name HD2V) 7321 weight 0	name HN )) name HBI )) 7331 weight 0
resid 52 1.800 resid 52	resid 52 1 600 resid 52	resid 51 1 700 resid 52 resid 51	2 200 esid 52	2 000 esid 52	1 600 maid 59 maid 59	eard 59 eard 59 2 100	esid 59 esid 59 2 100	esid 59 esid 59 2 300	esid 57 1 400	esid 57 1 600	ind resid 57 ind resid 57 io 1 900	ind reald 57	ind resid 57	10 2 100 ind resid 26 ind resid 26	nd resid 26	nd resid 10	0 900	2 100	rD " and resid 12 and 3 100 2 000 peak	" and resid 15 and " and resid 14 and 100 2 100 peak	D " and resid 16 and D " and resid 13 and 3 100 2.000 peak	resid 15 resid 14 1 900	reald 15 reald 14 1 700
segid "BrD " and 2,700 1.800 (7061) segid "BrD " and	segid "BrD " and 2 500 1 600 { 7071} segid "BrD " and	914 'BrD 1 600 1 7091} 2914 'BrD "	3.000 2 { 7101} segid "BrD "	500 3 7111) 91d "BrD	3 900 3 800 I { 7141} ( segid "BrD " and r 3 300 2 700	1151) 11d "BrD 11d "BrD	1161} 11d "BrD 11d "BrD 100 2	171) 11d 'BrD 11d 'BrD 100 2	181} 1d '8rD 1d '8rD	191) 11d "BrD 11d "BrD 1	{ 7201} segid "BrD " ; segid "BrD " ; 3 600 3 20	211) id "BrD id "BrD	221) 121) 14 'BrD	3 400 2 90 { 7231} segid "BrD" s	341) 14 "BrD	3.500 3 10 (7261) segid "BrD " a segid "BrD " a	4 600 4 600 { 7271} aegid "BrD " and ;	3 400 2 900 { 7281}	egid "BrD ' 500 3	segid "BrD " and segid "BrD " and 2 900 2 100	8 4311} segid "BrD " 8 segid "BrD " 8 3.500 3 10	{ 7321} segid "BrD " and segid "BrD " and 3 600 3,200	(7331) segid "BrD segid "BrD 2 2 600 1

	3 068	3 067	3.447	1 068	1 540	2 590	1 235				3 021	2 851	3 932	3 493	1 971		2	3 654	3 337	3 299	4 531	.09		2 480	2 280	2.042	
	7 523 ppm2	7 629 ppm2	9 133 ppm2	9 072 ppm2	8 049 ppm2	8 045 ppm2	9,679 pm2		715		9.152 ppm2	9 120 ppm2	8 007 ppm2	2mdd 699 8	9 187 ppm2	ţ	8 574 ppmz	8 487 ppm2	9 021 ppm2	8 886 ppm2	8 375 ppm2	1 E 1 2 Promp		9 651 ppm2	9 653 ppm2	9 651 ppm2	
	0.40620E+02 ppm1	0 10084E+03 ppm1	0 11666E+03 ppml	0.29964E+03 ppml	0 15507E+03 ppm1	0 38621E+03 ppm1	0 199745+03 ppm1	258368+03	31947E+03		0 23530E+03 ppml	0 913888+03 ppm1	0 34560B+02 ppm1	0 39419E+03 ppm1	0 28394E+03 ppml		0.82725£+03 ppmi	0 23309E+03 ppm1	0 23285E+03 ppml	0 26676E+03 ppm1	0 43718E+03 ppm1	117410.00		0 36178E+03 ppm1	0 74538E+03 ppm1	20991E+03 ppm1	
•	11000E+01 volume	11000E+01 volume	11000E+01 volume	0.11000E+01 volume	11000E+01 volume	11000E+01 volume	11000E+01 volume	11000E+01 volume	11000E+01 volume	1000	11000E+01 volume	11000E+01 volume	11000E+01 volume (	.11000E+01 volume	0.11000E+01 volume		0.11000E+01 Volume	11000E+01 volume	11000E+01 volume	11000E+01 volume	11000E+01 volume		eun roa	0.11000E+01 volume	.11000E+01 volume	.11000E+01 volume	
eeid 24 and name RE22}1 coid 24 and name HG2 })	4 100 4 100 1 400 peak 7861 { 7871 } segid "BrD" and resid 24 and name	Segid "Bril" and resid 24 and hame 3 500 3.100 2 000 peak 7871 { 7881} and resid 25 and hame	9594 "BrD" and resid 24 and name 3 400 2 900 2 100 peak 7881 { 7891}	regid "BrD" and resid 18 and hame HN )) regid "BrD" and resid 18 and name HD1t) 1900 2 100 2 100 peak 7891 weight 7901)	(( oegid "BrD " and resid 73 and name HN )) ( oegid "BrD " and resid 73 and name HDit) 3 300 2 700 2 200 peak 7901 weight 0	Abb. ( 791) ( segid "BrD" and resid 73 and name HN )) ( segid "BrD" and resid 73 and name HB1 )) 2 800 2 000 peak 7911 weight 0	{ 7921} segid "BrD" and resid 56 and name eggid "BrD" and resid 56 and name 3 100 2 400 pesk 7921	{ 7931} segid "BFD" and resid 22 and name HN )) segid "BFD" and resid 22 and name HD2%) 3 000 2 200 peak 7931 weight	celd 110 and name HN )) celd 110 and name HG11))	# 1951) 8egid "BiD" and resid 29 and name HN )) segid "BiD" and resid 29 and name HG1 ))	3 100 2 400 2 400 peak 7951 (7961) segid "BrD" and resid 23 and name	2.400 1 400 1 400 peak 7961 { 7971} aegid "BrD" and resid 80 and name	segid "BrD " and resid 80 and name 4 400 4 400 1 100 peak 7971 (7981) segid "BrD " and resid 100 and name	eegid "BrD" and resid 100 and name 2 800 2.000 2 000 peak 7981 [ 7991]	segid "BrD " and resid 19 and name HB )) segid "BrD " and resid 19 and name HB2 }) 3 000 2.200 2.200 peak 7991 weight	{ 8001}  segid "BrD " and reald 97 and name HN })  segid "BrD " and reald 97 and name HG1 ))	2 500 1 600 1 600 peak 8001 weight (8 901) 89914 "BLD" and resid 105 and name HN )) 89914 "BLD" and resid 105 and name HB2 ))	2 400 peak 8011 esid 12 and name	Begid "BrD" and resid 12 and name 3 100 2 400 2 400 peak 8021 (8031) pegid "BrD" and resid 10 and name	begid "BrD " and resid 10 and name 3 000 2 200 2 200 peak 8031 { 8041}	((degid "BFD" and reskd 114 and name HN )) ((degid "BFD" and reskd 114 and name HAZ )) (2 000 2 000 peak 6041 weight 0	( 8051) segid "BrD " and resi	cend 39 and name	2 800 2 000 2 000 peak 8101 weight [ 8111 ] segid "BrD " and resid 39 and name HN ))	oegid "BrD " and resid 39 and name 2 500 1 600 1.600 peak 8111 { 8121}	((segid mBrD " and resid 39 and name HN )) ((segid mBrD " and resid 39 and name HGL )) 3 100 2 400 2.400 peak 8121 weight 0	and resid 57 and name
693	452			667	699	691	696	686	411	202	768	811	796	<u>.</u>	441	960	963	609	443		N n	275	2772	290	نون ا	936	587
9 679 ppm2 2	8 749 ppm2 4	6 Cmgr. 283	5	8 759 ppm2 3	9 106 ppm2 4	8.680 ppm2 4	8 006 ppm2 4	7 639 ppm2 3	6 981 ppm2 4	9 463 ppm2 3	7 516 ppm2 4	8 858 ppm2 4	8.713 com2		9 125 ppm2 4	7.985 ppm2 9	9 125 ppm2 7	9 156 ppm2 4	9 156 ppm2 4		8 696 ppm2 4	7 763 ppm2 4	9 156 ppm2 7	8 488 ppm2 4		8 526 ppm2 4	8 794 ppm2 4
0 48254E+03 ppm1	0 30089E+03 pm1			0.29994E+03 ppm1	0.13400E+03 ppm1	0.16410E+03 ppml	0 79484E+02 ppml	0 15049E+03 ppm1	0 80779E+02 ppm1	0 10576K+03 ppml	0 13652E+03 ppml	0 10495E+03 ppm1	0 94491E+02 ppm1		0 14245E+03 ppml	0 10255E+03 ppm1	0 51137E+02 ppm1	0.10795E+03 ppml	0.10223E+03 ppml		0.26822E+03 ppml	volume 0 25521E+03 ppml	volume 0 28976E+02 ppm1	0 14640B+03 ppm1		0 82783E+02 ppm1	0 35014E+03 ppml
0 11000E+01 volume	11000E+01 volume	1000011		0 11000E+01 volume	0 11000E+01 volume 0.13400E+03	0 11000E+01 volume 0.16410E+03	0 11000E+01 volume 0 79484E+02	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume 0 13652E+03	0 11000E+01 volume 0 10495E+03	0 11000E+01 volume 0 94491E+02		0 11000E+01 volume 0 14245E+03	0 110008+01 volume	0.11000E+01 volume 0 51137E+02	0 11000E+01 volume 0.10795E+03	0 11000E+01 volume 0.10223E+03		0 11000E+01 volume 0.26822E+03	0 11000E+01	0 11000E+01 volume	0 11000E+01 volume 0 14640B+03		0 11000E+01 volume 0 82783E+02	0 11000E+01 volume
segid "BxD " and resid 56 2.700   1.800   1.800 { 7601}	(( segid "BrD " and resid 61 and name HN )) (( segid "BrD " and resid 58 and name HA )) 2 900 2 100 2 100 peak 7601 weight (	esid 64 and name	esid 66 and name	2 100 eard 75	2 100 peak	2 300 peak 2 300 peak seld 80 and	usid 77 and name 1 800 peak 7661	and name HA peak 7671 wes and name HN	1 900 peak 7681	seld 81 and 2 000 peak	(( segid "BrD " and regid 85 and name HN )) (( segid "BrD" and regid 82 and name HA )) 3 300 2 700 2 200 peak 7711 weight 77213	( eegad "BrD " and resid 89 and name HN )) ( eegad "BrD " and resid 86 and name HA )) 3 500 3 100 2 000 peak 7721 weight	ASSI { 7731} (( segad "BID" and resid 93 and name HN )) (( segad "BID" and resid 92 and name HA )) 3 600 3 200 1900 neak 7731 weight	esid 98 and name	2 200 peak 7741 esid 77 and name	2 000 peak 7751	(( segid "BrD " and resid 98 and name HN )) (( segid "BrD " and resid 96 and name HN )) 3 900 3 800 1 600 peak 7761 weight ASSI ( 7771)	(( eegid "BrD " and resid 102 and name HN )) (( segid "BrD " and resid 96 and name HA )) 3 500 3 100 2.000 peak 7771 weight	ASSI { 7781} ( segld "BED" and resid 102 and name HN )) ( segld "BED" and resid 99 and name HA )) 3 500 and 7781 weight	esid 103 and name	2 200 peak	2 200 peak 7801	(( Begin "BrD" and resid 102 and hame HN )) (( Begin "BrD" and resid 104 and hame HN )) 4 300 4 300 1.200 peak 7811 weight 5551 ( 7831)	(( segid "BrD " and resid 105 and name HN )) (( oegid "BrD " and resid 102 and name HA )) 3 300	old 105 and name	1 900 peak 7841 said 16 and name	( degid byD - and resid 16 and name HB1 ) 2 900 2 100 2 100 peak 7851 weight

## COSTORIA CEEDO

2 363	1 997	2.536	2.099	4 614	7.511	4 277	4 809	2 654	157	4 872	4 286	2 491	4 443	2 187	1 624	1 308	1 806	90		4 652	4.488	2 902	1 683
8 667 ppm2	8.668 ppm2	8 487 ppm2	8 485 ppm2	8 573 ppm2	9 740 ppm2	9 740 ppm2	9.471 ppm2	9 472 ppm2	9.475 ppm2	9 458 ppm2	9 457 ppm2	9 457 ppm2	8 695 ppm2	8 695 ppm2	8 695 ppm2	8 695 ppm2	2 695 ppm2	9.073 com2		8 584 ppm2	8.583 ppm2	8 585 ppm2	8 998 ppm2
20903E+03 ppm1	66936E+02	67760E+03 ppm1	0.16286E+02 ppml	75253E+03 ppml	765958+02 ppml	78592E+02 ppml	67510E+02 ppm1	14701E+04 ppm1	10977E+03 ppml	39214E+02 ppm1	85958E+02 ppm1	51430E+03 ppm1	21373E+02 ppm1	17364B+03 ppm1	23656E+03 ppm1	856798+02 ppml	18049E+03 ppm1	0.37426E+03 nom1	3	22483E+03 ppml	.56508E+02 ppml	57592E+03 ppml	30063E+03 ppml
11000E+01 volume 0	11000E+01 volume 0	0.11000B+01 volume 0	0.11000E+01 volume 0	0 11000E+01 volume 0	11000E+01 volume 0	0 11000E+01 volume 0	11000E+01 volume 0	.11000E+01 volume 0	11000E+01 volume 0	0.11000E+01 volume 0	0.11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	110008+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0		0 110008+01 volume 0	11000E+01 volume 0.	0.11000E+01 volume 0	0.110005+01 volume 0
( 8931)  megid "BrC * and reeid 112 and name HW	ame lame	cend 105 and name HB  ) cend 104 and name HB1  ) 1 700 peak 9001 weight eeld 105 and name HN  )	esid 104 and name HG1 }) 0 700 peak 9021 weight esid 109 and name HN })	1 600 peak 9081 weight esid 106 and name HN )	1 800 peak 9141 esid 106 and name	1 800 peak 9151 weight and 63 and name HN ))	esid 60 and name 1 700 peak 9301 esid 63 and name	1 200 peak 9321 weight 0 eaid 63 and name HN ))	2 000 peak 9331 esid 22 and name	1 400 peak 9351 weight celd 22 and name HN })	resid 19 and name HA )) 1 900 peak 9361 weight eard 22 and name HN ))	1 800 peak 9391 weight 0	restd 99 and name HA )) 0 900 peak 9551 weight 0	and name HN )) and name HG )) cak 9571 weight 0	esid 101 and name HG2*) cesid 101 and name HG2*) 2 200 peak 9581 weight 0	esid 103 and name HN )) esid 102 and name HDIV) 1 900 peak 9591 weight 0	segid "BrD" and resid 103 and name HN )) segid "BrD" and resid 102 and name HB2 )) 3.200 2 600 2 300 peak 9601 weight 0	( 9691) segid "BrD" and resid 18 and name HN )) segid "BrD" and resid 18 and name HB2 )) 2.800 2.000 2.000 peak 9691 weight 0	esid 64 and name HN ))	2 400 peak 9701 weight esid 64 and name HN ))	eald b2 and hame HA )) 1 600 peak 9711 weight 0 eald 64 and hame HN ))	esid 63 and name HBI )) 1 700 peak 9741 weight emid 62 and name HN ))	and resid 62 and name HB2 ))
A891	ASSI ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (	(	)) SSSI	ISSY	, ASSI )	(( ( )	ISSA	ISSE	)) 1384 ))	)) ISSA ))	ISSE ISSE	)))   	(   (   (   (   (   (   (   (   (   (	)     ISSK	ASSI ASSI	ISSE	~~ <u>}</u>	ASSI ((	ASSI () )	ASSI	ASSI ( {	ISSY '	) SSI
6 478	2 702	2 011	4 803	ග ග ග	0.982	1 422	2 531	1 598	5 719	4 645	1 747	44.				7 400	2 303	2 090	2 010	2 288	3.337	9 00 4	2 473
9 355 ppm2		9 358 ppm2		8 166 ppm2			9 156 ppm2	9 156 ppm2		8 001 ppm2	8 168 DDM2			<b>1 1 1</b>	160	10 051 ppm2	10 051 ppm2	10 051 ppm2	10 051 ppm2	8 885 ppm2	8 803 ppm2	8 803 ppm2	
0 75880E+02 ppml		0 72644E+02 ppm1	02	0.64220E+02 ppml			0 25477E+03 ppm1	0 14766E+03 ppm1	0 10722E+03 ppm1	0 24489E+03 ppm1	0 81338E+02 ppm1					0.29553E+02 ppm1	0 60769E+02 ppml	0 60094E+02 ppml	0 677768+02 ppml	0 38664E+02 ppml	0 115758+03 ppm1		0 535598+03 ppml
0.11000E-01 volume		volume		0 11000E+01 volume	11000E+01 volume	volume	0 11000E+01 volume	0.11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	amil CV			DEED 10+900011	11000E+01 volume	11000E+01 volume	11000E+01 volume	0.11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0.11000E+01 volume	volume
and and	cesid 56 and name HB1 )) 2 000 peak 8171 weight cesid 57 and name HN )) cesid 56 and name HN ))	1 300 peak eald 57 and 1 800 peak	regid 28 and name HN )) seld 24 and name HA )} 1 900 peak 8241 weight	celd 28 and name HN }) celd 28 and name HD2 }) 1 700 peak 8251 weight	esid 51 and name HN }} esid 50 and name HG2*} 2 200 peak 8351 weight	name HN )} name HG2*) 1431 weight	esid 102 and name HN )) esid 101 and name HB )) 2 200 peak 8471 weight	esid 102 and name HN )) esid 101 and name HG2*) 2 200 peak 8491 weight	esid 46 and name HN )) esid 46 and name HD4 ) 2 000 peak 8541 weight	esid 43 and name HN )) esid 41 and name HA )) 2 200 peak 8591 weight	esid ill and name HN }) esid ill and name HGil) 1 900 peak 8671 weight	resid 111 and name HN }) resid 110 and name HD1%} 1 500 peak 8701 weight	reald 58 and name HN )}	esid 58 and name HB )) esid 57 and name HB2 ))	and name HDI ))	1 200 peak said 58 and said 57 and	1 700 peak 8771 reald 58 and name	1 700 peak 1 700 peak 181d 58 and	resid 57 and name HG2 ))	cald 10 and name HN )) cald 9 and name HG1 )} 1 400 peak 8821 weight	sold 13 and name HN )) sold 12 and name HB2 )) 2 100 peak 8831 weight	celd 14 and name HN )) celd 12 and name HN )) 1 700 peak 8841 weight	send 112 and name HN )) send 111 and name HB1 )) 1 800 peak 8921 weight
(( segi	ASSI ( 81) ( 8691) ( 8691) ( 8691) ( 8691)	82 82 9eg1 3 70	8 82 8 6 91 3 6 0	{ 82 Begi Begi 3 80	( 83 1691 1 00 1	84 8691	1691	991	85 691 50	2 4 4 9	8 6 6 6	7 1 1 1 0 0	2 2 2 2	2 C ភូភិទី	20 44	9 6 9 4	82 83	91.0	88.	440	99.95	8 4 20	191

0 668				1 898	8 553	4 445	7 596	4 559	4 400	2 779	2 610	3 059	8 143	2 997	1 314	2 782			4 975	2 784	2.174	1 094	0 8 0
8 014 ppm2	A 10		8 423 ppm2	571	8 424 ppm2	8 572 ppm2	8 858 ppm2	8 858 ppm2	8 858 ppm2	8 858 ppm2	8.865 ppm2	8 876 ppm2	12 275 ppm2	8 486 ppm2	8 480 ppm2			}	8 183 ppm2	8 181 ppm2	8 184 ppm2	8.178 ppm2	8 177 ppm2
63252E+00 ppml	tune COTOBCOLO	; ;		8	19900E+03 ppm1	36593E+02 ppml	19134E+03 ppm1	89575E+01 ppm1	66703E+02 ppm1	67773E+02 ppml	36189E+02 ppm1	16770B+03 ppm1	.38088E+02 ppml	11011E+02 ppml	14151E+03 ppm1	57286E+02 ppm1		3	36612E+02 ppml	528E+03 ppml	.15559E+03 ppm1	11065E+03 ppml	41672E+02 ppml
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HN )) HD24) weight	HN )) HD1*)	HN ))	HN ))	HN )) HD1 )) Weight 0	HN )) HN )) weight 0	HN )) HA )) weight 0	HN )) HD% ) weight 0	HN )) HD1 )) Weight 0	HN )) HD2 )) weight 0	HN )) HB1 )) weight 0	HN )) HB2 )) weight 0	HN )) HB1 )) weight 0	HN )) HN )) weight 0	HN )) HG1 )) weight 0	HN )) HD1%) weight	HN )) HD1 )) Weight 0	HN )	N. S.	weight HN )) HD1 ))	weight 0 HN ))	weight HN ))	me HB1 // 61 weight 0.11( me HN )/	HG1 )) weight 0 HN ))
resid 80 and name regld 78 and name 0 000 peak 10791	resid 80 and name resid 78 and name	27.2	86 and 83 and 00 peak	resid 87 and name resid 86 and name 2 000 peak 10951	resid 86 and name resid 87 and name 2 400 peak 10961	resid 87 and name resid 83 and name 1 300 peak 10971	resid 89 and name resid 88 and name 2 300 peak 11061	resid 69 and name resid 91 and name 0 200 peak 11071	resid 91 and name resid 91 and name 1 700 peak 11081	resid 89 and name resid 87 and name 1 700 peak 11101	resid 89 and name resid 87 and name 1 300 peak illil	resid 92 and name resid 91 and name 2 300 peak 11121	resid 30 and name resid 28 and name 1 400 peak 11221	resid 31 and name resid 29 and name 0 400 peak 11261	resid 31 and name resid 102 and name 2 200 peak 11311	0 3 3	resid 32 and name resid 33 and name 1 600 neak 13341	4.5	1.300 peak 11381 resid 34 and name l	D.	2 200 peak 114.	33 an 00 peak 34 an	resid 34 and name 1 400 peak 11471 resid 34 and name
and and soo	D and	and	and and	and 100	and 400	and	and and	and 300	segid "BrD " and r segid "BrD " and r 3.800 3.600	D " and D " and 3.600	( segid "BrD " and r ( segid "BrD " and r 4.200 4.200	( segid "BrD " and ro ( segid "BrD " and ro 3 200 2.600	( segid "BrD " and r ( segid "BrD " and r 4 100 4 100	1261) 31d "BrD " and r 31d "BrD " and r 100 5.100	{11311} segid "BrD " and r segid "BrD " and r 3 300 2 700	O " and O " and 3 800	D and	1} "BrD " and "BrD " and	4 200 D * and D * and	and	700 and	1000.	and 100
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1 484	4 473	4 697	2 934	1 610	4 888	2 755	4 637	7 660	4.830	7 00 7	3 345	4 792	7 500	7 701	4 532	4 370	2 816	0 987	4 005	2 349	2.580	2 493	4 412
8 998 ppm2	9.021 ppm2	9.133 ppm2	8 655 ppm2	8 656 ppm2	8 659 ppm2	Zwdd 665 8	8.796 ppm2	8 792 ppm2	9 106 ppm2	9 107 ppm2	7 979 ppm2	8 669 ppm2	8 670 ppm2	7 979 ppm2	7.996 ppm2	7 996 ppm2	9,037 ppm2	2 036 ppm2	6 981 ppm2	7 640 ppm2	7 640 ppm2	7 640 ppm2	
0 71463E+02 ppml	0 35721E+03 ppml	0 14084E+03 ppm1	0 589026+03 ppm1	0 85488E+02 ppml	0 60003E+02 ppm1	0 10487E+03 ppml	0 35770E+03 ppml	0 11249E+03 ppml	0 50909E+02 ppml	0 185296+03 ppml	0 63650E+03 ppml	0 126258+03 ppm1	0 13077E+03 ppml	0 148918+03 ppml	0 20590B+03 ppm1	0 36339E+03 ppm1	0 43885E+03 ppml	0 12606E+03 ppm1	0 53978E+02 ppml	0 91821E+02 ppm1	0.72987E+02 ppml	0 728258+02 ppm1	55498E+02
.11000E+01 volume	11000E+01 volume	11000E+01 volume	0.11000E+01 volume	0 11000E+01 volume	11000E+01 volume	11000E+01 volume	11000E+01 volume	11000E+01 volume	11000E+01 volume	11000E+01 volume	11000E+01 volume	11000E+01 volume	11000E+01 volume	11000E+01 volume	11000E+01 volume	11000E+01 volume	0 11000E+01 volume	11000E+01 volume	11000E+01 volume	11000E+01 volume	0.11000E+01 volume	11000E+01 volume	11000E+01 volume
name 9941 name	and name HD1 ) } peak 9961 weight 0	and name HM )) peak 10011 weight 0	weight	HG2%) weight HN ))	and name HA )) peak 10071 weight 0 and name HN ))	and name HB1 }) peak 10101 weight 0 and name HN })	and name HA }) peak 10161 weight 0 and name HN })	and name HD% ) peak 10171 weight 0 and name HW ))	peak 10211 weight o	peak 10271 weight 0 and name HN ))	peak 10321 weight o	peak 10341 weight o	and name RN ))	and name HD* ) peak 10371 weight 0 and name HN ))	and name HA )) peak 10481 weight 0 and name HN ))	and name HA )) peak 10491 weight 0 and name HN ))	HB1 )) Weight	name 10521	and name HN )) and name HA )) peak 10671 weight 0	and name HN )) and name HG1 )) eak 10691 Weight O	and name HB1 )) peak 10701 weight 0	and name HN )) and name HB2 )} peak 10711 Weight 0	and name HN )) and name HA )) peak 10731 weight 0
resid 62 1.800 resid 12	2 000	and resid 22	and resid 23 700 1 700	resid 21 1 900 resid 24	esid 20 1 700 esid 15	2 000 2 000 eard 16	2 000 2 000 esid 16	" and resid 15 100 2 000 " and resid 75	800 1 600 and resid 75	and resid 96	1.700 resid 95	2 100 esid 95	2 100 2 100 esid 96	2 200 2 200 eard 78	resid 75 2 400 resid 78	2 000 resid 54	2 000	regid 50 2 100	resid 82 resid 78 1.600	resid 81 resid 80 1.900 p	" and resid 81 * and resid 80 400 1.800	and resid 01 and resid 80	and resid 81 and resid 79 800 1 600
(( segid "BrD " and ) 3.700 3.400 ASSI { 9961} (( segid "BrD " and )	(( segid "BrD 2 800 ASSI (10011) (( secid "BrD	segid "BrD 3 300 {10041}	( segid "BrD 2.600 1 ASSI (10051) ( segid "BrD	segid "Br 3 600 {10071} segid "Br	(( segad "BrD 3 800 3 ASSI [10101] (( segad "BrD	(( segid "BrD " and r 3 500 3.100 ASSI (10161) (( segid "BrD " and r	( segid "BED 2 800 2 ASSI (10171) ( segid "BED	( segid "BrD 3 500 3 ASSI (10211) (( segid "BrD	1 900 (10271)	3 200 3 {10321} segid "BrD	2 2 8 8	1 m - a c	ASSI (10371) ( segid "BrD " and r	e v ~ e	m ~ m	g ~ g	2 2 E	# ~ ~		(( segid "BrD " and : (( segid "BrD " and : 3 600 3 200	eegid "Br segid "Br 3 700	ASSI [10711] (( segid "BrD (( segid "BrD 3	ASSI {10731} (( segid "BrD (( segid "BrD 3.900 3

2,010	2 337	1 440	1 680	1 909	4 425	2 486	2 364	3 796	4 152	3 408	5.727	7 944	4 523	1 995	1 926	1 780	1 818	0 991	4.650	1 874	7 701	1 867	
8 714 ppm2	8 714 ppmz	8 714 ppm2	8 168 ppm2	8 668 ppm2	8 217 ppm2	8 219 ppm2	8 218 ppm2	8 307 ppm2	8 307 ppm2	8 307 ppm2	8 832 ppm2	8 833 ppm2	8 377 ppm2	9 003 ppm2	9.003 ppm2	9 003 ppm2	9.004 ppm2	9.002 ppm2	7 822 ppm2	7 821 ppm2	8 674 ppm2	8 146 ppm2	
0.10959E+03 ppm1	48783E+03 ppm1	26294E+03 ppm1	27526E+03 ppm1	16739E+03 ppm1	80563E+02 ppml	57596E+02 ppml	67480E+02 ppm1	28319E+02 ppm1	44246E+02 ppml	35395E+02 ppml	10097E+03 ppm1	23274E+03 ppm1	65616E+03 ppm1	112705+03 ppm1	88686E+00 ppml	11315E+03 ppm1	16847E+03 ppm1	38955E+03 ppm1	12554E+03 ppml	34295E+02 ppml	13710E+03 ppml	0 113468+03 ppm1	
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esid 110 and name HN )) .esid 109 and name HD1 )) 2 000 peak 12321 weight 0	resid 110 and name HN )) resid 109 and name HB1 )) 1 800 peak 12331 weight 0	resid 110 and name HN )) resid 109 and name HG1 )) 2 200 peak 12341 weight 0	resid 111 and name HN )) resid 110 and name HG12)) 2 200 peak 12351 weight	reald 112 and name HN )) reald 111 and name HG2 )) 2 300 peak 12361 weight	resid 113 and name HN )) resid 110 and name HA )) 1 900 peak 12371 weight 0	esid 113 and name HN )) esid 111 and name HB1 )) 1 600 peak 12381 weight 0	esid 113 and name HN )) esid 111 and name HB2 )) 1 700 peak 12391 weight 0	esid 48 and name HN )) esid 47 and name HB1 )) 1 200 peak 12531 weight 0	caid 48 and name HN }) esid 46 and name HA }) 1 500 peak 12541 weight 0	esid 48 and name HN )) esid 47 and name HB2 )) 1 300 peak 12551 weight 0	resid 47 and name HN )) csid 46 and name HDV ) 2 000 peak 12561 weight 0	esid 47 and name HN )) esid 47 and name HD*) 2.400 peak 12571 weight 0	resid 51 and name HN )) resid 50 and name HA )) 1 700 peak 12631 weight	resid 52 and name HN )) resid 51 and name HB1 )) 2 100 peak 12641 weight 0	resid 52 and name HN )) resid 51 and name HG1 )) 0 000 peak 12651 weight 0	resid 52 and name HN )) resid 51 and name HG2 )) 2 100 peak 12661 weight 0	resid 52 and name RN )) resid 51 and name HB2 )) 2.300 peak 12671 weight 0	resid 52 and name HN }) resid 50 and name HG2*) 2 000 peak 12681 weight 0	resid 42 and name HN }) resid 41 and name HA }) 2 100 peak 12731 weight 0	resid 42 and name HN )) resid 41 and name HG2%) 1.300 peak 12771 weight 0	resid 97 and name HN )} resid 96 and name HD% ) 2 200 peak 12781 weight	reald 20 and name HN )) reald 19 and name HG1 )) 2 100 peak 12791 weight 0 reald 19 and name HN ))	
ASSI (12121) (( segid "BrD " and 1) (( segid "BrD " and 1) (	[12331] segid "Br segid "Br 2 700	(12341) segid "Bz segid "Bz 3 000	ASSI (12351) ( segld "BrD" and : ( segld "BrD" and : ( segld "BrD" and : 1 000 2 200	aeg1d "Br aeg1d "Br aeg1d "Br	ASSI (12371) ( segla "BED" and ) ( segla "BED" and ) 3 600 3 200	ASSI (14281)  (( segid "BrD " and )  (( segid "BrD " and )  3.900 3.900	( segid "BrD " and r. ( segid "BrD " and r. ( segid "BrD " and r. ( segid "BrD " and r. 1887 (1253)	(( segid "BrD " and (( segid "BrD " and 4 300 4 300 ASSI (12541)	(( segid "BrD " and r (( segid "BrD " and r 4 000 4 000 ASSI (1253)	(( segid "BrD " and i ( segid "BrD " and i 4 200 4 200 8881 (12561)	((segid "BrD (segid "BrD 3 500 3 500 ASSI (12571)	(( segid "BrD " and r			(( segld "BrD " and ) (( segld "BrD " and ) ( 5 50 5 500 ASSI (1266.)			( segid "BrD " and ( segid "BrD " and 2 800 2.000		ASSI [12/17] ( ( segad "BrD " and ( seegad "BrD " and 4 200 4 200	ASSI (12781) (( megid "Br ( megid "Br ( megid "Br	ASSI (12791) (( eegid "BFD" and (( eegid "BFD" and 3 400 B 2 900 ASSI [12801) (( eegid "BFD" and (( eegid "BFD" and	
4 363	2 840	3 380	2 146	5 012	1 437	1 562	7 782	5 135	1 502	1,531	2 401	2 498	2.603	2 116	1,076	2.698	2 426	2 189	4 447	4 811	2 012	4 4 936 4 682	
8 182 ppr2	8 308 ppm2	8 832 ppm2	8.832 ppm2	8 626 ppm2	8 626 ppm2	8 626 ppm2	8 306 ppm2	8 039 gang	7 536 ppm2	7 536 ppm2	7 537 ppm2	7 536 ppm2	7 537 ppm2	8 046 ppm2	7 536 ppm2	9 125 ppm2	9 125 ppm2	9 124 ppm2	8.513 ppm2	8 513 ppm2	8 696 ppm2	7 763 ppm2 8 981 ppm2	
0 11000E+01 volume 0 17351E+03 ppml	11060E+01 volume 0 43329E+02 ppm1	110006+01 volume 0 632355+02 ppm1	11000E+01 volume 0 76792E+02 ppm1	0 11000E+01 volume 0 80687E+03 ppm1	11000E+01 volume 0 13257E+03 ppml	0 110005+01 volume 0 738745+02 ppm1	11000E+01 volume 0 11106E+03 ppml	11000E+01 volume 0 19118E+03 ppm1	0 11000E+01 volume 0 24720E+02 ppm1	0 11000E+01 volume 0 39673E+02 ppm1	0 11080E+01 volume 0 21474E+03 ppml	11000E+01 volume 0 29959E+03 ppm1	0 11000E+01 volume 0 27375E+03 ppml	0.11000E+01 volume 0 13672E+03 ppml	0 11000E+01 volume 0 74433E+02 ppml	11000E+01 volume 0 70973E+03 ppml	0 11000E+01 volume 0 20137E+03 ppm1	11000E+01 volume 0 20070E+03 ppm1	11000E+01 volume 0.46069E+02 ppml	0 11000E+01 volume 0 20943E+03 ppm1	110008+01 volume 0 377738+03 ppm1	0 11000E+01 volume 0 18477E+03 ppml 0 11000E+01 volume 0 26295E+03 ppml	
	and name HBI )) sak 11501 weight 0 and name HN ))	reaid 65 and name HB2 )) 1 700 peak 11611 weight 0 reaid 67 and name HM ))	resid 66 and name HG1 )) 1 800 peak 11621 weight 0 ceald 68 and name HN ))	oo peak 11641 weight 68 and name HN })	resid 69 and name HG34) 2 100 peak 11681 weight 0 resid 68 and name HN ))	resid 69 and name Hult)  1 800 peak 11691 weight resid 69 and name HN ))	2 000 peak 11721 weight 0 said 70 and name HN ))	and name HN ))	00 peak 11791 weight 74 and name HN ))	1 400 peak 11801 weight esid 74 and name HN ))	2 400 peak 11811 weight esid 74 and name HN ))	2 100 peak 11821 weight 0 esid 74 and name HN ))	peak 11831 weight and name HN ))	2 200 peak 11871 weight esid 74 and name HN ))	1 800 peak 11901 weight resid 98 and name HN ))	1 600 peak 11981 weight 0 resid 98 and name HN ))	2 400 peak 11991 weight celd 98 and name HN ))	2 400 peak 12001 weight 0	1 500 peak 12171 weight 0	2 400 peak 12181 weight caid 103 and name HN ))	cesid 102 and name HB1 )) 2,000 peak 12191 weight 0 cesid 104 and name HN ))	ceid 100 and name HA )) 2.300 peek 12201 weight ceid 107 and name HN )) 2.200 peek 12231 weight	
(( segid "B 3 200 ASSI (11501) (( segid "B	(( segid "B 4 000 ASSI (11611) ( segid "B	(( segid "B 3.800 ASSI (11621) (( segid "B	( segid "B 3 700 ASSI (11641) ( segid "B	( segid "B ASSI (11681) ( ( segid "B	( segid "B 3 400 ASSI (11691) (( segid "B	3 700 3 700 ASSI {11721} ({ segid "B	3 500 ASSI (11781) (( seegld "B	ASSI (11791) (( segad "B	4.400 ASSI (11801) (( segid "B	4 100 ASSI {11811} (( segid "B (( segid "B	3 100 ASSI (11821) (( segid "B (( seqid "B	2 900 ASSI (11831) (( Begid "E	3 000 3 000 ASSI (11871) (( segid "B	3 300 ASSI (11901) (( segid "BY	3 700 3 700 ASSI {11981} (( segid "B (( seqid "B	2 500 ASSI (11991) (( Begid "B)	3 100 ASSI (12001) (( segid "Bi	3 100 2 400 ASSI [12171] (( segid "BrD " and r	ASSI (12181) (( segid "B	3 100 3 100 ASSI (12191) (( segid "B	(( segid "B 2.800 ASSI (12201) (( segid "B	(( segid "8 3 200 ASSI (12231) (( segid "B (( segid "B 3 000	

0.11000E+01 volume 0 11595E+03 ppm1	9 186 ppm2 0	901 (134 (134 (134 (134 (134 (134 (134 (13	esid 79 esid 75 1 500	and name HN )) and name HA )) peak 13421 weight 0	* 11000E+01 volume	0 47743£+02 ppm1	8 680 ppmz	4 518
0 22952E+03 ppm1	9.186 ppm2 1 4	642 (134 (134 (134 (134 (134 (134 (134 (134	esid 81 esid 77 1 000	and name HN )) and name HA )) peak 13431 weight 0	11000E+01 volume	0 235118+02 ppm1	7 639 ppm2	4 978
0.27823E+03 ppml	9 187 ppm2 1	A76 (1.9 σeg. (( α σeg. ( α σ	1.3441 uegid "BrD " and resid 83 segid "BrD " and resid 83 3 600 3.200 1 900 [1345]	and name HN )) and name HA )) peak 13441 weight	0.11000E+01 volume	0 85635E+02 ppml	7 519 ppm2	4 441
0.27123E+03 ppml	9 187 ppm2 4	516 ( segid ( segid ( segid	esid 1	and name HN and name HA peak 13451 wei	11000E+01 volume	0 75325E+03 ppml	7 517 ppm2	3 646
64336E+02 ppm1	ppm2 2	)) ) ASSI	ยย	and name and name peak 13461	11000B+01 volume	0 40309E+03 ppm1	8 357 ppm2	4 922
	ppm2	)) See All See	Begid "BrD" and resid 81 Begid "BrD" and resid 83 3.900 3 800 1.600 {13491}	and name HN and name HN peak 13481 wer	11000E+01 volume	0 50469E+02 ppml	7 640 ppm2	9 655
0.39331E+03 ppm1 0 47384E+03 ppm1	9 122 ppm2 2 2 8 168 ppm2 2 2	310 (( segg) ( segg) ( segg) 3 ( segg) 3 75 ( segg) 3 75 ( segg) 3 75 ( segg) 3 75 ( segg) 4 75	eegid "BrD " and resid 96 segid "BrD " and resid 93 3 700 [13501] seqid "BrD " and resid 109	and name HN )) and name HA )) eak 13491 weight and name HN ))	0.11000E+01 volume	0 70852E+02 ppm1	7 981 ppm2	5 013
		)) ))	0 900 0 900 estd 12	and name eak 13501 and name	11000E+01 volume	0 18885£+02 ppm1	8 574 ppm2	4 935
0 74378E+02 ppml	8 170 ppm2 3	() sega 3 50 3 50 1 ASSI (100 074 () sega	segid "BrD " and resid 108 3 500 3 100 2 000 [ {1352}} segid "BrD " and resid 92	and name peak 13511 and name	11000E+01 volume	0 11166E+03 ppml	8 714 ppm2	4 818
0 32659E+03 ppm1	01	( 8ega 3 20 ASSI { 1.85 ( 8 8ega	2 300 2 300 2 300 2 300	and name peak 13521 and name	11000E+01 volume	0 16456E+03 ppml	8 873 ppm2	5 343
0 14156E+03 ppm1	8	( 8 6 9 3 9 3 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2 100 2 100 2 100 2 100	and name ak 13541 and name	11000E+01 volume	0 30894E+03 ppml	9 125 ppm2	8 653
0 73008E+02 ppm1	W	(( 8egs) 2.90 ASSI (136) 087 (6 8eg)	8egid "BrD " and resid 101 2.900 2 100 2 100 p {13561} 8egid "BrD " and resid 32	and name eak 13551 and name	110508+01 volume	0 34725£+03 ppml	8 696 ppm2	8 519
0 11000E+01 volume 0 89819E+02 ppm1	64	(	1 100 resid 24	and name peak 13561 and name	11000E+61 volume	0 25941E+02 ppml	7.739 ppm2	5 445
	4	ASS1	d "BrD " and resid 23 10 2 000 2 000 181} d "BrD " and resid 73	and name peak 13571 and name	11000E+01 volume	0 42825K+03 ppml	8 655 ppm2	2 870
8	5 edd	1858	0 0	and name peak 13581 and name	11000E+01 volume	0 46662B+02 ppml	8 045 ppm2	9 084
	'n	( 8 egg. ) ASSI ( 13 6000 ) ( 18 egg. ) ( 18 egg. ) ( 18 egg. )	1 600 1 600 esid 67	and name peak 13591 and name	11000E+01 volume	0 54843E+02 ppml	8 999 ppm2	2 952
0 11732E+03 ppm1	8 670 ppm2 4	( 699) 2 60 2 602 ( 699)	segid "BrD" and resid 65 2 800 2 000 (13621) segid "BrD" and resid 75	and name peak 13611 and name	ll0005+01 volume	0 36617E+03 ppml	8 832 ppm2	3 626
0 44005E+03 ppm1	8 998 ppm2 2	(( Reg) 3 26 53 (138 (138 (138 (138 (138 (138 (138 (13	2 300 estd 10	and name eak 13621 and name	11000E+01 volume	0 17250E+03 ppml	9 106 ppm2	2 988
42972E+02 ppm1	8 423 ppm2 1	( 8 eeg.) ASSI ( 1.50 9.0 9.0 9.0	0 600 0 600	and name eak 13641 and name	11000E+01 volume	0 141348+02 ppml	7 763 ppm2	9.736
0 66944E+03 ppm1	8 670 ppm2 4		real real	and name peak 13671 and name	11000E+01 volume	0 56031R+02 ppml	7 545 ppm2	0.414
0 66429E+02 ppm1	9.073 ppm2 4	(	2 000 re	and name peak 13701 and name	11000E+01 volume	0 41690E+03 ppm1	8 743 ppm2	2.837
0 12618B+04 ppm1	9 186 ppm2 9	( and	ITD and relied to and relied and relied to another to anoth	and name peak 13711 and name	11000E+01 volume	0 40898£+03 ppml	8 998 ppm2	2 853
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9.00	3 018	4 812	4.675	8.726	2 891	2 784	2 607	5 440	4 453	4 288	2 169	1 308		2 476	1 318	1 558	1 394		1.296	1 156	2 290	8 368
8.746 ppm2	8 007 ppm2		9 660 ppm2	9 651 ppm2	8 657 ppm2	9.658 ppm2	9 651 ppm2	359 ppm2	2 359 ppm2	3 359 ppm2	8 377 ppm2	8.375 pom2		8 166 ppm2	8.166 ppm2	8.381 ppm2	8.380 ppm2		8 381 ppm2	8.381 ppm2	8 733 ppm2	8 880 ppm2
31176E+03 ppm1			0.35765E+03 ppml	29321E+02 ppml	37403E+02 ppm1	55108E+02 ppm1	33585E+02 ppml	0 21622E+03 ppm1	38316E+02 ppml	0.78885E+02 ppm1	68239E+02 ppml	726368+02 pemi	12341E+03	69844E+02	0 11542E+03 ppm1	0 19156E+03 ppml	0.39844E+02 ppm1		0 11494E+03 ppm1	45762E+02 ppml	0.24692E+03 ppm1	55844E+02 ppm1
• 0.100008+03 volume 0	volume	volume	0 10000E+01 volume 0	10000E+01 volume 0	0 100005+01 volume 0	10000E+01 volume 0	10000E+01 volume 0	0 10000E+01 volume 0	10000E+01 volume 0	10000E+01 volume	10000E+01 volume 0	0 10000E+01 volume 0	volume	10000E+01 volume	10000E+01 volume	0 10000E+01 volume 0	0 10000E+01 volume 0		0.10000E+01 volume 0	10000E+01 volume 0	10000E+01 volume 0	10000E+01 volume 0
and name HN )) and name HB1 )) neak 4671 weight 0.	name HN )) name H82 )) 5081 weight	name HN )) name HA )) 7641 weight 0	name HN )) name HA )) 7691 weight	and name HN )) and name HN )) peak 8061 weight 0	and name HN }) and name HG1 }) peak 8071 weight 0	٥	name HN )) name HB2 )) 8091 weight 0		name HN )) name HA )) 8151 weight 0	name HN )) name HD1 )) 3161 weight 0	and name HN )) and name HG )) peak 8221 weight 0 and name HN ))	name HB1 )) name HD )) name HD1%)	name HN }) name HB% }	name HN )) name HB1 )) 3281 weight	name HN )) name HD1%) 3301 weight 0	name HN )) name HG12)) 8311 weight	and name HN )) and name HD1%)	and name	name HN )) name HG2%) 8331 weight	lame HN )) lame HD1%)	and name HN )) and name HB2 )) peak 8401 weight 0	7 and name HN )) 8 and name HN )) Peak 6411 weight 0
esid 61 cestd 60 2 100	esid 73	esid 76 esid 73 2 000	esid 83 2 000	esid 39 esid 38 1 200	esid 39 esid 42 1 400	esid 39 esid 42 1.600	esid 42 esid 42 1 300	esid 57 esid 36 2 400	esid 57	D " and resid 57 3 400 1 800 F	CD " and resid 114 and in and in and resid 115 and in 3 600 1 700 peak to and in and i	D " and resid 115 and son the	TO " and resid 28 TO " and resid 31 2.900 2 100 F	esid 26	tD * and resid 28 and 1 rD * and resid 102 and 1 2 900 2 100 peak	rD " and resid 118 and roll and resid 116 and 2 600 2 300 peak	rb " and resid 118 and rosid 116 and 4 100 1.400 peak	rD " and resid 118	fD and read 118 and 1 fD and read 110 and 1 2 900 2 100 peak	rD " and resid 51 and n rD " and resid 50 and n 4 000 1 500 peak 8	es1d 38 2 200	esid 11
ASSI { 4671} ({ segid "Br ({ ocgid "Br 2 900	ASSI { 5081} ({ segid "Br (( segid "Br (( segid "Br	ASSI { 7641} (( segid "BrD " and r (( segid "BrD " and r 3.500 3 100	ASSI { 7691} (( segid "Bx ( segid "Bx ( segid "Bx	ASSI ( 8001) (( segid "Br (( segid "Br 4 300 ASSI ( 8071)	(( segid "Br (( segid "Br ( 100 ASSI ( 8081)	(( acgid "Br (( acgid "Br ( 3 900 ASSI ( 8091)	(( segid "Br (( segid "Br 4 200 ASSI ( 8141)	((segid Bz ((segid Bz (segid Bz 3 100 ASSI (8151)	(( segid "Br (( segid "Br 4 100 ASSI ( 8161)	((segid "Br ((segid "Br 3 700 ASSI (8221)	( segid "BYD " and r ( segid "BYD " and r 3 800 3 600 OR { 8221} (( segid "BYD " and r	((segid "Br ASSI { 8231} ((segid "Br Regid "Br	ASSI { 8271 } ( segid "BrD " and r ( segid "BrD " and r 3 400 2.900	ASSI ( 8281) (( 8egid "BrD " and 1 (( 8egid "BrD " and 3	ASSI { 8301} {( segid "BrD " and 1 { segid "BrD " and 1 3 400 2 900	ASSI ( 8311) (( uegid "BrD " and (( uegid "BrD " and ) 200 2 600	ASSI { 8321} ({ eegid "BrD " and r ( eegid "BrD " and r 4 100 4 100	OR (8321) {(segid "81 (segid "81 ASST (8331)	( segid "BrD " and ( segid "BrD " and 3 400 2 900	ASSI { 8.91} (( 8egid "Bi ( 8egid "Bi 4 000 A 000	( segid "BrD " and z ( segid "BrD " and z ) 300 2 200	ASS! { 841.1 ( segid "BrD " and ( segid "BrD " and 3 900 3 800
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4.926	4 622	4.628	4 37 <u>1</u>	4 253	4 755	4 415	4 451	7 972	7 949	7 498	7.782 3.297	3 958	4 201	7 899	3 572	8 075	7 505	4 525	7 246	4 936	4.895	5 021
9.472 ppm2 4.926	7.536 ppm2 4 622	9 106 ppm2 4.628	7.996 ppm2 4 371	8 487 ppm2 4 253	9 196 ppm2 4 755	9 196 ppm2 4 41S	9 152 ppm2 4 451	9 037 ppm2 7 972	ppm2	ppm2	8 528 ppm2 7.782 9 038 ppm2 3.297	ю	11.081 ppm2 4 201	8 936 ppm2 7 899		6 003 ppm2 8 075	9 660 ppm2 7 505		8 695 ppm2 7 246	9 052 ppm2 4 936	9 678 ppm2 4.895	8 662 ppm2 5 021
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1 9.472 ppm2	11000E+01 Volume 0.19208E+03 ppml 7.536 ppm2 4	volume 0.21726E+03 ppml 9 106 ppm2	11000E+01 volume 0 16504E+03 ppml 7.996 ppm2	11000E+01 volume 0 19414E+03 ppml 8 487 ppm2 4	11000E+01 volume 0.52793E+02 ppml 9 196 ppm2 4	11000E+01 volume 0.62704E+02 ppml 9 196 ppm2 4	volume 0.2779SE-01 ppml 9 152 ppm2 4	volume 0 31830E+03 ppml 9 037 ppm2 7	volume 0 57580E+02 ppml 8 307 ppm2	volume 0 10869E+03 ppml 7 979 ppm2	11000E+01 volume 0 10492E+02 ppml 8 528 ppm2 11000E+01 volume 0 23500E+02 ppml 9 038 ppm2	volume 0 4745cE+02 ppml 11 081 ppm2 3	volume 0 94290E+01 ppml 11.081 ppm2 4	volume 0 20460E+03 ppml 8 936 ppm2 7	10000E+01 volume 0 47904E+02 ppml 8 673 ppm2 3	10000E+01 Volume 0 10704E+03 ppm1 6 863 ppm2 8	volume 0 44105E+02 ppml 9 660 ppm2 7	volume 0 49544E+02 ppml 7 761 ppm2 4	Volume 0 64814E+D2 ppml 8 695 ppm2	Volume 0 32855E+03 ppm1 9 052 ppm2 4	. 9 678 ppm2	. 8 662 ppm2 5
and name RA )) Seek 13741 weight 0.11000E+01 volume 0.16317E+03 ppm1 9.472 ppm2	and name HA. )) such mame HA. )) such mame HA. )	audi name AA )} aud name BA )} seak 13771 weight 0 11000E+01 volume 0.21726E+03 ppm1 9 106 ppm2 and name AN )}	and name HA. )) seak 13761 weight 0 11000E+01 volume 0 16504E+03 ppm1 7.996 ppm2 and name HA. ))	and name IA )) peak 13791 weight 0 11000E+01 volume 0 19414E+03 ppml 8 487 ppm2 4 and name NN )) ond name NN ))	cak 13801 weight o 110006-01 volume 0.527938-02 ppml 9 196 ppm2 4 and name RN )	eak 13811 weight o 110008+01 volume 0.627048+02 ppml 9 196 ppm2 4 and name NA )	weak 13821 weight 0 11000E+01 volume 0.2779EE-01 ppml 9 152 ppm2 4 and name NN )	reak 13831 weight 0 11000E+01 volume 0 31830E+03 ppml 9 037 ppm2 7 and name HN )	ppeak instance 0 57560E+02 ppml 8 307 ppm2 and name HN ))	eak 13661 weight 0 110006.01 volume 0 108698.03 ppml 7 979 ppm2 and name HN ))	Deak 14011 weight 0 11000E+01 Volume 0 30492E+02 ppm. 8 528 ppm2 and name HN )) and name HN )) beak 14881 weight 0 11000E+01 Volume 0 23500E+02 ppm. 9 038 ppm2	and name HE2 )) and name HE2 ) beak 15591 weight 0 11000E+01 volume 0 47456E+02 ppml 11 081 ppm2 3	1 )) 1 )) 1 )) 1 )1 1 )1000E+01 Volume 0 94290E+01 ppml 11.081 ppm2 4	)   .   .   .   .   .   .   .   .   .	( )) 11 )} 19ht 0 10000E+01 volume 0 47904E+02 ppml 8 673 ppm2 3	hamme HN )) 931 weight 0 10000E+01 Volume 0 10704E+03 ppm1 8 863 ppm2 8	nome HN )) 1881 weight 0 10000E+01 Volume 0 44105E+02 ppm1 9 660 ppm2 7	uname HN )) anne HA )) 2331 weight 0 100005+01 volume 0 495445+02 ppml 7 761 ppm2 4	name HDV ) name HDV ) name HDV o 1000E+01 volume 0 64814E+02 ppml 8 695 ppm2	ame HN )) lame HN )) lame HN ) lame	and name NN )) and name NN )) pack 3795 (N) (10000E+01 volume 0 18743E+03 ppml 9 678 ppm2)	and name HN }) and name HA }) peak 4371 weight 0 100008-01 volume 0.121048-03 ppml 8 662 ppm2 5
2.300 peak 13741 weight 0.11000E+01 volume 0.16317E+03 ppml 9.472 ppm2	reard 71 and mame HA. )) 2 300 peak 1376 weight o 11000E+01 volume 0.1920#E+03 ppml 7.536 ppm2 4	audi name AA )} aud name BA )} seak 13771 weight 0 11000E+01 volume 0.21726E+03 ppm1 9 106 ppm2 and name AN )}	reald 74 and name RA )) 2 300 peak 13761 weight 0 11000E+01 volume 0 16504E+03 ppml 7.996 ppm2 reald 105 and name RN ))	0 11000E+01 volume 0 19414E+03 ppml 8 487 ppm2 4	1 600 peak 13601 weight 0 11000E+01 volume 0.52793E+02 pyml 9 196 ppm2 4 196 ppm2 2 and name HN ))	1 700 peak 13811 weight 0 11000E+01 volume 0.62704E+02 ppml 9 196 ppm2 4 ensid 2 and name RN ))	0 000 peak 13821 weight 0 11000E+01 volume 0.27785E-01 ppml 9 152 ppm2 4 orenti 44 and name RN ))	reak 13831 weight 0 11000E+01 volume 0 31830E+03 ppml 9 037 ppm2 7 and name HN )	1 600 peak 13951 weight 0 11000E.01 volume 0 57580E.02 ppml 8 307 ppm2 (eaxd 96 and name HN )	weight 0 11000E+01 volume 0 10869E+03 ppml 7 979 ppm2 HN ))	1 200 peak 14011 waight 0 11000E-01 volume 0 30492E-02 ppml 8 528 ppm2 esid 54 and name HHV )) resid 54 and name HHV )) resid 54 and name HHV ) 1 000 peak 14681 weight 0 11000E-01 volume 0 23500E+02 ppml 9 038 ppm2	resid 32 and name HE1 )) resid 32 and name HE2 )) 1 500 peak 15591 weight 0 11000E+01 volume 0 47456E+02 ppml 11 081 ppm2 3	1 )) 1 )) 1 )) 1 )1 1 )1000E+01 Volume 0 94290E+01 ppml 11.081 ppm2 4	0 10000E+01 volume 0 20460E+03 ppml 8 916 ppm2 7	( )) 11 )} 19ht 0 10000E+01 volume 0 47904E+02 ppml 8 673 ppm2 3	-eard 117 and hame HN )) 2.000 peak 931 waight 0 10000E-01 Volume 0 10704E-03 ppm1 8 863 ppm2 8	nome HN )) 1881 weight 0 10000E+01 Volume 0 44105E+02 ppm1 9 660 ppm2 7	esid4 49 and name HA )) 6045 60 and name HA )) 1.500 peak 2331 weight 0 100006:01 volume 0 495446:02 ppml 7 761 ppm2 4	esid 103 and hame HN )) said Sa and name HD ) 1 700 pak 2 Sall weight 0 10000E+01 volume 0 64814E+02 ppml 8 695 ppml	HN )) HA )} weight 0.100008+01 volume 0 12855E+03 ppml 9 052 ppm2 4	coid 56 and name NV )) 0.000 2	name HM )) name HM )) 4371 weight o 100008+01 volume 0.121048+03 ppml 8 662 ppm2 5

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1 602	1 620		1 314	7 033		4 674	1 136	994	2 904	1 797	1.228	7.806	2 031	7 050		4 682	277 7	4.568	1 390		2 532	1 489		
8.486 ppm2	8 574 ppm2		9 740 ppm2	9 740 ppm2		9 464 ppm2	9 463 ppm2	9 464 ppm2	9 456 ppm2	9 456 ppm2	9 456 ppm2	9 456 ppm2	8 SS6 ppm2	8 695 ppm2		8 696 ppm2	8 936 ppm2	8 936 ppm2	9 074 ppm2		8 585 ppm2	8 585 ppm2	669	
0 506038+02 ppml	0 17190B+03 ppm1		0 58744E+02 ppml	0 19539E+02 ppm1		0 97923E+03 ppm1	0 172916+02 ppm1	0 16063E+02 ppm1	D 41354E+03 ppml	0 92991E+02 ppml	0 76602E+02 ppml	0 63643E+02 ppml	0 19915E+03 ppml	0 14888E+03 ppm1		0 13131E+02 ppm1	0 10701E+03 ppml	0 29603E+02 ppm1	0 80801E+02 ppm1		0 10265E+04 ppm1	0 14024E+03 ppm1	29691E+02	
10000E+01 volume	0,10000E+01 volume		0 10000E+01 volume	10000E+01 volume		0.10000E+01 volume	0.10000E+01 volume	10000E+01 volume	10000E+01 volume	1 10000E+01 volume	10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume		0.10000E+01 volume (	0 10000E+01 volume	10000E+01 volume (	10000£+01 volume (		0.10000E+01 volume (	0.10000E+01 volume (	volume	
~ B B m -	( 9121, 9121	9111) 8egid "BrD" and resid 21 and name segid "BrD" and resid 21 and name [ 9211]	<pre>segid "BrD" and reald 106 and name HN )) segid "BrD" and reald 102 and name HD2*) segid "BrD" and reald 102 and name HD2*) { 9221}</pre>	(( segid "BrD " and resid 106 and name HN )) ( segid "BrD " and resid 82 and name HSF) 4 600 4 600 0 900 peak 9221 weight 0	resid 106 and name HN resid 82 and name HZ	66gid "BYD" and reald 84 and name HN )) 86gid "BYD" and reald 80 and name HA )) 2 400 1.400 1.400 peak 9231 weight 6 9261	segid "BrD" and resid 64 and name HN )) segid "BrD" and resid 50 and name HD1t) 4 700 0 4 700 0 800 peak 9261 weight (921)	vegid "BrD" and resid 84 and name segid "BrD" and resid 50 and name 4.800 4.800 0.700 peak 9271 { 9381}	segid "BrD" and resid 63 and name segid "BrD" and resid 63 and name 2 000 2 000 peak 9381 { 9411}	({ segid "BrD " and resid 22 and name HN )} ( segid "BrD " and resid 25 and name HGl%) 3 600 3 200 1 900 peak 9411 weight 0 ASSI { 9421}	- ă ă m ~	segid "BrD" and resid 63 and name HN )) segid "BrD" and resid 68 and name HDt ) a.800 3 600 1,700 peak 9431 weight f oan)	segid "BrD" and read 109 and name HN )) segid "BrD" and reald 109 and name HDI )) and 2 400 2 400 peak 9481 weight	( 9521) segid "BED" and resid 103 and name HM )) segid "BED" and resid 82 and name HE# ) 3 300 2 700 2 200 peak 9521 weight	9521, 9631, 8631, 8631, 8631, 871, 871, 871, 871, 871, 871, 871, 87	segic 'BrD' and resto 11. and name HN )) eegid 'BrD' and resid 111 and name HA )) 4 900    4 900    0 600 peak 9541 weight { 9611}	(( segid "BrD " and resid 99 and name HN )) ( segid "BrD " and resid 34 and name HR*) 3 500 3 100 2 000 peak 9611 weight 0 ASSI ( 967)	(( segid "BrD" and resid 99 and name HN )) (( segid "BrD" and resid 30 and name HB2 )) ( 4 300 4 300 1 200 peak 9671 weight 0	~ ē ē m c	95631, 8ecgid "BrD" and resid 18 and name secgid "BrD" and resid 14 and name (5 9751)	resid 63 and name HB2 )) 1.400 peak 9751 weight	segid "BrD " and resid 64 and name HN )) segid "BrD " and resid 63 and name HD2%) 3 300 2 700 2 200 peak 9761 weight	" and reald 17 and name HN )) " and reald 15 and name HB1 )) 1 300 1.200 peak \$811 weight	(( segid "BrD" and resid 40 and name HN ))
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1 915	2 338	6 153	7 050		23 24 88			1 692	2 497						on 6		1 396	4 255	3 087	2.534	1.263	3 870	1 320	
8 876 ppm2	8 923 ppm2	9 156 ppm2	9 156 ppm2		9 156 ppm2	8 564 ppm2	562		8 001 ppm2						8 167 ppm2	7 mid 601 0	8 168 ppm2	10.051 ppm2	10 051 ppm2	10 050 ppm2	8 669 ppm2	8 487 ppm2	8 486 ppm2	
0.57435E+02 ppm1	0 67409E+02 ppm1	0 51665E+02 ppm1	0 42485E+02 ppm1		0 86913E+02 ppm1	0 11267£+02 ppm1			0 39702E+02 ppm1					5/2318+02	C 66898E+02 ppml		0 11425E+03 ppm1	0 73156E+02 ppm1	0 48442E+00 ppml	0 21191E+02 ppm1	0 60828E+02 ppm1	0.10888E+03 ppml	0 764035+02 ppml	
0.10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume		0 10000E+01 volume	0 10000E+01 volume	volume	volume	0 10000E+01 volume	volume		en lime		NOT THE	o reconstant volume		0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume (	0 10000E+01 volume (	0 10000E+01 volume (	0 10000E+01 volume (	0 10000E+01 volume (	
isid 117 and name HN )) sid 116 and name HG11,) 1 600 peak 8421 weight	name HN )) name HDl )) 8441 weight	sid 102 and name HN )} sid 28 and name HE1 }} 1 600 peak 8451 weight	resid 102 and name HN )) resid 82 and name HE's ) 1 400 peak 8461 weight	resid 102 and name	SYD " and resid 102 and name HN }) SYD " and resid 103 and name HB1 )) 3 200 1.900 peak 8481 weight	181d SO and name HN )   181d 48 and name HA )   0 400 peak 8501 weight	seld 46 and name HN )) seld 44 and name HA )) 1 500 peak 8551 weight	said 46 and name HN }) said 43 and name HBt } 2 000 peak 8581 weight	seid 43 and name HN )) seid 39 and name HB1)) 1 400 peak 8601 weight	esid 43 and name KN )) esid 39 and name KD1 )) 2 000 peak 8511 weight	resid 43 and name HN )) resid 41 and name HG2*) 1 300 peak 8621 weight	esid 43 and hame HN )) esid 38 and name HG1%) 1 200 neak 8631 weigh:	resid 43 and name HN ))	resid 111 and name HN ))	1 700 peak resid 111 and resid 110 and	reeld 111 and name HD1%)	2 100 peak 8691 weight resid 50 and name HN ))	1 800 peak 8711 weight resid 58 and name HN ))	esid 59 and name Hoz )) 691d 58 and name HN ))	o 900 peak 8801 weight resid 112 and name HN )}	1.700 peak 8971 weight resid 105 and name HN }}	resid 106 and name HB1 )) 2.000 peak 8991 weight	D " and reald 105 and name HN )) D " and reald 102 and name HD2t) 3 400 1.800 peak 9041 weight D " and reald 105 and name HN ))	נבחדם דחק שוום נושווב

	3 105	3.301	10 062	4 100	2 603	000		5 505	3 310	3 322	2 049	2 096	2 208	0 765	2 779		2.577			1 148	0 780	1 146	3 299	3 018	4 430		1
	7 975 ppm2			674	981	196		6 981 ppm2	641	200	900	681		532	423												į
	0.101195+04 ppm1	0 26376E+03	42990E+02	69879E+02					54085E+02	7077	71103E+02	105806+03	56660E+02	422616+02	59880E+02			93545E+02		o ora (or+oz ppm)	22088E+02	6	46286E+02	0.5	783548+02		
		0 100005+01		0.10000E+01	0 10000E+01	0 100006+01	1000001 0		0 100005+01					volume	volume		volume	10000E+01 volume			volume	valume	+01 volume		01 volume	volume	
1.000 peak 2951 weight 0.100006-01 volume 0.724058-03 ppp.1 8.669 ppm2 1 1.000 peak 2951 weight 0.100006-01 volume 0.45124-02 ppm1 8.668 ppm2 1 1.000 peak 3912 weight 0.100006-01 volume 0.206028-02 ppm1 8.668 ppm2 0 1.000 peak 3911 weight 0.100006-01 volume 0.206028-02 ppm1 8.568 ppm2 0 1.000 peak 3911 weight 0.100006-01 volume 0.206028-02 ppm1 8.588 ppm2 0 1.000 peak 3911 weight 0.100006-01 volume 0.206028-02 ppm1 8.588 ppm2 0 1.000 peak 3911 weight 0.100006-01 volume 0.206028-02 ppm1 9.021 ppm2 0 1.000 peak 3911 weight 0.100006-01 volume 0.206028-02 ppm1 9.021 ppm2 0 1.000 peak 3911 weight 0.100006-01 volume 0.163080-02 ppm1 9.021 ppm2 0 1.000 peak 3911 weight 0.100006-01 volume 0.163080-02 ppm1 9.021 ppm2 0 1.000 peak 3911 weight 0.100006-01 volume 0.163080-02 ppm1 9.021 ppm2 0 1.000 peak 3911 weight 0.100006-01 volume 0.163080-02 ppm1 9.021 ppm2 0 1.000 peak 3911 weight 0.100006-01 volume 0.163080-02 ppm1 9.021 ppm2 0 1.000 peak 3911 weight 0.100006-01 volume 0.163080-02 ppm1 9.021 ppm2 0 1.000 peak 3911 weight 0.100006-01 volume 0.163080-02 ppm1 9.021 ppm2 0 1.000 peak 3911 weight 0.100006-01 volume 0.163080-02 ppm1 9.022 ppm2 0 1.000 peak 3911 weight 0.100006-01 volume 0.163080-02 ppm1 9.022 ppm2 0 1.000 peak 3911 weight 0.100006-01 volume 0.163080-02 ppm1 9.022 ppm2 0 1.000 peak 3911 weight 0.100006-01 volume 0.163080-02 ppm1 9.026 ppm2 0 1.000 peak 3911 weight 0.100006-01 volume 0.130080-02 ppm1 9.008 ppm2 0 1.000 peak 3011 weight 0.100006-01 volume 0.130080-02 ppm1 9.008 ppm2 0 1.000 peak 3011 weight 0.100006-01 volume 0.130080-02 ppm1 9.008 ppm2 0 1.000 peak 3011 weight 0.100006-01 volume 0.130080-02 ppm1 9.008 ppm2 0 1.000 peak 3011 weight 0.100006-01 volume 0.130080-02 ppm1 9.008 ppm2 0 1.000 peak 3011 weight 0.100006-01 volume 0.130080-02 ppm1 9.008 ppm2 0 1.000 peak 3011 weight 0.100006-01 volume 0.130080-02 ppm1 9.008 ppm2 0 1.000 peak 3011 weight 0.100006-01 volume 0.130080-02 ppm1 9.008 ppm2 0 1.000 peak 3011 weight 0.100006-01 volume 0.130080-02 ppm1 9.008 ppm2 0 1.000 peak 3011 weight 0.10000	2.400 1.400 1.400 {105a1} Begid "BrD " and resid 76	begin bil and resid 78 segid 18 segid 19 2 200 2 200 2 200 8 8 segid 19 segid 18 seg	Segid BrD and reald 55 and name egid "BrD and reald 58 and name 4 100 4 100 1 400 peak 10591 {10621}	segid "BrD" and resid 56 and name segid "BrD" and resid 34 and name 700 3 400 1 800 peak 10621 {10641}	segid "BrD " and resid 82 and name segid "BrD " and resid 80 and name 4 200 4 200 1 300 peak 10641 4.0651)	segid "BrD " and resid 82 and name segid "BrD " and resid 84 and name 4 300 1 200 peak 10651	(10061) segid "BrD " and resid 82 and name segid "BrD " and resid 99 and name 4 100 4 100 1 400 peak 10651	(10721) segid "BrD" and resid 81 and name segid "BrD" and resid 91 and name 3 900 3 800 1 600 mask 10773	(10751) segid "BrD" and resid 80 and name segid "BrD" and resid 80 and name 4 400 1 100 peak 10751	(10771) segid "BrD" and resid 80 and name segid "BrD" and resid 81 and name	3 700 3 400 1 800 peak 10771 [10841] segand "BLD" and reald 79 and name	2504 3100 2 000 peak 10841 (10861) and resid for 2 000 peak 10841	### ##################################	said 85 and name said 81 and name 1 400 peak 10891	1 700 peak 10921	seld 86 and name	erid 86 and name sid 87 and name 1 700 peak 10931	sid 86 and name HN )) sid 99 and name HBt ) 1 900 peak 10941 weight	(11001)  segid "BrD" and resid 87 and name HN )) segid "BrD" and resid 50 and name HDI#) 3 800 3 600 1 700 Deak 11001 weight	<pre>{11021} segid "BrD" and resid 8? and name HN )) segid "BrD" and resid 86 and name HG2 ))</pre>	4 500 4 500 1 000 peak 11021 weight [11031] 8egid "BrD" and resid 88 and name HN ))	8eg1d BrD " and resid 50 and name HD1%) 3.600 3 200 1 900 peak 11031 Weight {11041}	segid "BID" and resid 88 and name HN )) egid "BID" and resid 84 and name HB2 ) 4 000	segid "BID" and resid 88 and name HN )) segid "BID" and resid 87 and name HGI )) 4 600 4 600 0.900 peak 11051 weight	(41101 )  segid "BrD" and resid 93 and name HN ))  segid "BrD" and resid 91 and name HD2 ))  3 700 3 400 1 800 peak 11161 weight	(1117)  segic below and resid 93 and name HN ))  segod "BED" and resid 96 and name HBI ))  3300 2 700 2 200 peak 11171 weight	
1.00 peak. 9951 weight 0.100005-01 volume 0.134095-03 ppr1 8.668 ppm2 1.400 peak. 9951 weight 0.100005-01 volume 0.134095-03 ppr1 8.668 ppm2 1.400 peak. 9951 weight 0.100005-01 volume 0.20625E-03 ppm1 8.668 ppm2 1.400 peak. 9911 weight 0.100005-01 volume 0.20625E-03 ppm1 8.668 ppm2 1.400 peak. 9911 weight 0.100005-01 volume 0.20625E-03 ppm1 8.689 ppm2 1.400 peak. 9911 weight 0.100005-01 volume 0.13405E-03 ppm1 9.031 ppm2 1.400 peak. 9911 weight 0.100005-01 volume 0.13405E-03 ppm1 9.031 ppm2 1.400 peak. 9911 weight 0.100005-01 volume 0.13405E-03 ppm1 9.031 ppm2 1.400 peak. 9911 weight 0.100005-01 volume 0.13405E-03 ppm1 9.031 ppm2 1.400 peak. 9911 weight 0.100005-01 volume 0.13405E-03 ppm1 9.031 ppm2 1.400 peak. 9911 weight 0.100005-01 volume 0.13405E-03 ppm1 9.031 ppm2 1.400 peak. 9911 weight 0.100005-01 volume 0.13405E-03 ppm1 9.031 ppm2 1.400 peak. 9911 weight 0.100005-01 volume 0.13405E-03 ppm1 9.031 ppm2 1.400 peak. 9911 weight 0.100005-01 volume 0.13405E-03 ppm1 9.031 ppm2 1.400 peak. 9911 weight 0.100005-01 volume 0.13405E-03 ppm1 9.131 ppm2 1.400 peak. 10031 weight 0.100005-01 volume 0.13405E-03 ppm1 9.131 ppm2 1.400 peak. 10031 weight 0.100005-01 volume 0.13405E-03 ppm1 9.130 ppm2 1.400 peak. 10031 weight 0.100005-01 volume 0.13405E-03 ppm1 9.130 ppm2 1.400 peak. 10031 weight 0.100005-01 volume 0.13405E-03 ppm1 9.130 ppm2 1.400 peak. 10031 weight 0.100005-01 volume 0.13405E-03 ppm1 9.130 ppm2 1.400 peak. 10031 weight 0.100005-01 volume 0.13405E-03 ppm1 9.130 ppm2 1.400 peak. 10031 weight 0.100005-01 volume 0.13405E-03 ppm1 9.130 ppm2 1.400 peak. 10031 weight 0.100005-01 volume 0.13405E-03 ppm1 9.130 ppm2 1.400 peak. 10031 weight 0.100005-01 volume 0.13405E-03 ppm1 9.130 ppm2 1.400 peak. 10031 weight 0.100005-01 volume 0.13405E-03 ppm1 9.130 ppm2 1.400 peak. 10031 weight 0.100005-01 volume 0.13405E-03 ppm1 9.130 ppm2 1.400 peak. 10031 weight 0.100005-01 volume 0.13546E-03 ppm1 9.130 ppm2 1.400 peak. 10031 weight 0.100005-01 volume 0.13546E-03 ppm1 9.130 ppm2 1.400 peak. 10031 weight 0.100005-01 volume 0.	1 866	1 379		394		4 770	3 618	2 971					1 295			2 295	7 532	1 056	2 099	2 654				295	578	3 587	
1.60 (1) and hame HGZN) 1.60 peak 2 951 weight 1.60 peak 3 951 weight 1.60 peak 1051 weight 1				8.669 ppm2	858		9.021 ppm2	021	022				9 133 ppm2				8 611 ppm2	9.105 ppm2	9 106 ppm2	ppm2	Drom2		ppm2	ppm2	ppm2	7 988 ppm2	
1.60 (1) and hame HGZN) 1.60 peak 2 951 weight 1.60 peak 3 951 weight 1.60 peak 1051 weight 1	0.734058±03 ppm1	0 46134E+02			0 24469E+03 ppml	0 59337E+02	0 38398E+02	16530B+03					0 60868E+02 ppml		0 910638+02 ppml	739538+02	15827E+03		0 13102E+03 ppm1	0 67546E+02 ppml	0.57563E+02 ppml		0 35043E+03 ppm1		0 46013E+03 ppml	0 14200E+03 ppm1	
1   500 peak   9851 weight								0 10000E+01										10000E+01 volume	0.10000E+01 volume	0 10000E+01 volume						0.10000E+01 volume (	
Seejid 'BirD' and resid 11   ASSI   Se71   1.600   1	ame HG2%) 951 weight	name HN )) name HD2%) 9871 weight	пате пате	9881	and name ak 9911	and name	and name and name ak 9971	name name 1981	and name and name peak 9991	and name HN ))	and name HN )) and name HD1 )) peak 10021 weight	and name HN )) and name HD1%)	and name	and name and name	and name	ark 10191	peak 10221	and name peak 10251 and name	and name HB% ) ak 10261 weight and name HN ))	and name HE* ) ak 10291 weight	and name HN )) and name HD2%) ak 10301 weight		weight HB2 ))	reight (N ))	(42 ))	(B1 )) re1ght	79 and name HG1 ))

## DSELOSIA GEEEOO

		Ppml 8 669 ppm2 4 255		ppml 8 513 ppmz 2 282	ppml 8 981 ppm2 7 515	Ppm1 8 980 ppm2 2 547	2 maa 8 8 maa	ppm1 8 522 ppm2 2	ppml 8 218 ppm2	ppml 6 218 ppm2 1		ppm2 1	ppnl 8 356 ppn2 1 163	ppml 8 355 ppm2 2 346	ppm1 8 883 ppm2 1 544	8 083 ppm2	8 086 mm3	H 832 mom 2			9 004 ppm2 2	
		U 10000E+01 Volume 0.47923E+02 0 10000E+01 Volume 0 39843E+02		0 10000E+01 volume 0 11138E+03	10000E+01 volume 0 14273E+03	0 10000E+01 volume 0 11969E+03	0 10000E+01 volume 0 48486E+02	volume 0 20202E+	008+01 volume 0 28750E+02	10000E+01 volume 0 12771E+03	10000E+01 volume 0.11633E+03	10000E+01 Volume 0 47664E+01	+01 volume 0 26420E+02	volume 0 76081E+02	10000E+01 volume 0 17262E+02	Volume 0 16590E+03		. volume 0 33544E+02	ro-gorgos o emilox	Volume 0 90984E+02	Volume 0.53690E+02	
	esid 100 and name HN )) esid 101 and name HA ))	cold loo and name HN )) cold lol and name HGll) 1 400 peak 12091 weight	usid 100 and name	281d 101 and name HN )) 281d 104 and name HD1 )) 2 000 peak 12151 weight	segid "BrD " and resid 107 and name HN )) segid "BrD" and resid 106 and name HDt ) 3.300 2 700 2 200 peak 12221 weight 0 {12241}	segid "BrD " and resid 107 and hame HN )) segid "BrD " and resid 103 and name HG2 )) 3.400 2 900 2 100 peak 12241 wcight	(12271) segid BED " and resid 107 and name HN )) segid "BED" and resid 110 and name HG12)) 4 000 1 500 peak 12271 weight	(12291) segad "BED" and resid 100 and name HN )) segad "BED" and resid 109 and name HB2 )) 5.500 6.500 7.500 7.500 7.500 7.500 7.500 7.500 7.500	segid "BrD " and segid "BrD " and segid "BrD " and 4 300 4 300	(1291 "BrD" and resid 113 and name HN )) segid "BrD" and resid 110 and name HG2t) 3 400 2 500 2 100 peak 12431 weight o		[1444.1] [14	( wegald '8EP' and reald lis and name HN )) ( amegad '8EP' and reald lis and almor HSM) Ass ( 1447) 4 400 1.100 peak list weight 0 10000E	( ( uegal 'BrD' and resid 115 and mame HN )) ( ( uegal 'BrD' and resid 110 and mame HB )) 3.700 1 3.700 1 300 peak 12471 weight o 10000E+01 ASST (11248)	gegid "BrD" and resid 117 and name HN )) segid "BrD" and resid 116 and name HG12)) segid "BrD" and resid 116 and name HG12))	(( eegyd 'PrD' and read 116 and name HN )) ( eegyd 'PrD' and read 110 and name HN )  1.200 2 600 2 300 peak 1343 weggit 0.10000E.01	[12521] oegld "BED" and resid 116 and name HN )) segld "BED" and resid 110 and name HD1k) 3.200 2 600 2 300 peak 12521 weight o	[12591]  getd "BrD" and resid 47 and name segid "BrD" and resid 48 and name 4 200 1 300 peak 12591	(1251) segid "BLD" and resid 47 and name segid "BLD" and resid 43 and name 3 800 3.600 1.700 peak 12611	(12621) segad "BFD" and resid 49 and name HN )) segad "BFD" and resid 50 and name HB )) se00 5.200 1 900 pcsk 12621 weight	reald 52 and name HN )) reald 53 and name HG1 )) 1 600 peak 12701 weight o	(( segid 'BEP' and reals 52 and name HW )) (( segid 'BEP' and reals 53 and name HB )) (( segid 'BEP' and reals 43 and name HB )) (( segid 'BEP' and reals 42 and name HW ))
in the state of th	6 ppm2 3.392	5 ppm2 3 594	6 ppm2 7 741	0 ppm2 3 594	1 ppm2 3 389	8 ppm2 1 310	8 ppm2 3 447	9 ppm2 2 301	1 ppm2 1 527	i ppm2 1 305	. ppm2 1 553	ppm2 2 953	ppm2 1 640	ppm2 7 780	ppm2 2 947	ppmz 1 090	ppm2 3 689	ppm2 3 544	ppm2 2 491	ppm2 4 361	ppm2 2 851	ppm2 2.088
	2 ppm1 12.276	3 ppml 12 275	2 ppml 12 276	2 ppm1 6 480	1 ppm 1 8 481	! ppm1 7 738	ppm1 8 182	971 8 179	ppml 8 184	ppml 8 185	ppm1 7 734	ppm1 8 308	ppm1 8 763	ppm1 8 832	ppm1 8 626	ppml 8 626	ppm1 8 040	9 039 1 mdd	ppm1 8 040	ppm1 8 047	ppm1 7 536	ppm1 7.536
	0.100006+01 volume 0.26154E+02 ppml	0 10000E+01 volume 0	0 10000E+01 volume 0 82022E+02	0 10000E+01 volume 0 94685E+02	0 10000E+01 volume 0 64760E+02	0 10000E+01 volume 0 23592E+02	0 10000E+01 volume 0 18521E+03	0 10000E+01 volume 0 29794E+03	0 10000E+01 volume 0 12961E+03	0 10000E+01 volume 0 84106E+02	0.10000E+01 volume 0.22012E+02	0 10000E+01 volume 0 11642E+03	0 10000E+01 volume 0 34773E+02	0 10000E+01 volume 0 26280E+02	0.10000E+01 volume 0.74566E+02	0 10000E+01 volume 0 40212E+01	0 10000E+01 volume 0 91804E+02	0 10000E+01 volume 0 13333E+03 ppml	0 10000E+01 volume 0 79558E+02	0.10000E+01 volume 0 16883E+03	0.10000E+01 volume 0 18157E+02	0.10000E+01 volume 0 27875E+02
	and name HB2 )) peak 11191 weight and name HN ))	resid 28 and name HB1 )) 2 200 peak 11201 weight resid 30 and name HN )) resid 32 and name HN ))	1 900 peak 11211 weight resid 31 and name HN )) resid 28 and name HR ))	peak 11241 and name	pesk 11253 and name	1 000 peak 11361 weight resid 34 and name HN ))	reald 35 and name HG1 )) 2 300 peak 11391 weight resid 34 and name HN ))	resid 31 and name HB% ) 2 100 peak 11431 weight resid 34 and name HN })	and name eak 11441 and name	and name peak 11451 and name	resid 56 and name HDI%) 1 000 peak 11521 weight resid 36 and name HN ))	2 100 peak 11561 weight 2 106 and name HN ))	Weight Weight HN ))	1 100 peak 11601 weight esid 68 and name HN )	and name HB )) peak 11651 weight and name HN ))	segia "BrD" and resid 18 and name HD18    5500	1 900 peak 11731 weight asid 70 and name HN )	and name HB1 )) peak 11741 weight and name HN ))	and name HB2 )) peak 11771 weight	and name HB2 )) Peak 11841 weight and name HN ))	and name HB2 )) peak 11891 weight and name HN ))	

<b>ਜ</b>		4 874	5 140		2 648	4 419	8,642	2 665	9 745	4 663	1 696	4 798	1 640	4 568	1 881	7,907	2 215			998 0	8 515	5 016
7 536 ppm2		8 794 ppm2	7 537 ppm2 8 562 ppm2		8.08G ppm2	8 355 ppm2	8 375 ppm2	8 377 ppm2	8 529 ppm2	8 526 ppm2	8.521 ppm2	8.980 ppm2	9 740 ppm2	8 487 ppm2	8 487 ppm2	8 675 ppm2					9 125 ppm2	8 677 ppm2
0 17399E+02 ppm1		62	0.81254E+01 ppm1 0.18836E+02 ppm1		0 12168B+02 ppm1	0.38338B+02 ppm1	0 49230E+02 ppm1	0 99997E+01 ppm1	0 12922E+02 ppml	0.54819E+03 ppm1	0 95149E+01 ppm1	0 23253E+02 ppml	0 21267E+02 ppml	0 22190E+02 ppm1	0 11917E+02 ppm1	0 18067E+02 ppm1	0 25437E+02 ppm1	004908180		328025	0 25780 <b>E</b> +02 ppml	0 62831E+01 ppml
• 0 10000E+01 volume		0 10000E+01	0 10000E+01 volume 0 10000E+01 volume	0 10000E+01 volume	0.10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 100008+01 Volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	4 800		volume	volume	0 10000B+01 volume
resid 74 and name resid 14 and name 0 800 peak 13681	"BrD " and resid 74 "BrD " and resid 14 }  **BrD " and resid 16 "BrD " and resid 16	degio BiD and reald 17 and name 4.40 4.40 4.40 4.40 4.40 4.40 4.40 4.4	9.500 5.500 0.200 peak 13/51 [13881] eegid "BrD" and resid 46 and name eegid "BrD" and resid 39 and name eegid 4600 000 peak 13881	ASS [1389] ([ segid 'BrD' and resid 62 and name HN )] ([ segid 'BrD' and resid 67 and name HB] )] 4.100 4 100 1 400 peak 13891 weight	Ass. [1351] and resid 116 and name HN )) ( segad "BED" and resid 75 and name HB+) 5 000 5 000 0 500 peak 13931 weight	segid "BrD" and segid "BrD" and 4 100 4 100 (13951)	(( segid "BrD " and resid 114 and name HN )) (( segid "BrD " and resid 112 and name HN )) (( segid "BrD " and resid 112 and name HN )) ASSI (1361)	segid "BrD " and resid 114 and name segid "BrD " and resid 112 and name \$200 5 200 0.300 peak 13961 {14001}	(( eegid "BFD " and reard 108 and name HN )) (( aegid "BFD " and reard 106 and name HN )) 4 900 4 900 0 600 peak 14001 weight ASSI 14021)	(( segid "BrD " and reald los and name BN )) (( segid "BrD " and reald los and name BA )) ( 2 700 1 800 1 800 paak 14021 weight ASS (14031)	(( degid "BrD " and resid 108 and name HN )) (( degid "BrD " and resid 110 and name HG12)) 5 200 5 200 0.300 peak 14031 weight	(( segad "BrD " and resid 107 and name HN )) (( segid "BrD " and resid 108 and name HA )) ASS (1468)	(   pegad "BPD" and read 106 and name HN )) ( segid "BPD" and read 21 and name HG2t) ( segid "BPD" and read 21 and name HG2t)	(( meand "RED" and resid 105 and name HN )) (( segid "BED" and resid 106 and name HA )) 4 500 4 500 1 000 peak 14091 weight	Abol 144101   ( degaid "BED" and resid 105 and name HBZ )) ( eegaid "BED" and resid 103 and name HBZ )) ( so 00 5 000 0.500 peak 14101 weight approximately 141419)		[1421] segid "BrD" and resid 100 and name segid "BrD" and resid 97 and name 4 400 100 peak 14211	[14231] segrd "BrD" and resid 99 and name segrd "BrD" and resid 101 and name 4 300 4 300 1.200 besk 14231	eald 33 and name	o bou peak 14251 weight esid 98 and name HN )) esid 101 and name HN ))	1 100 peak 14271 weight resid 97 and name HN )) resid 93 and name HBI ))	5 500 5 500 0.000 peak 14291 4291 BrD " and resid 97 and name segid "BrD " and resid 93 and name
1 706	2 189	1 639	1.480	1 762	8 121	3.393	3 493	1 250	1 596	2 809	1 864	1 239	3 213	B 475	7 742		7.984	\$ 450	4 967	3 344	1 077	0 743
7 820 ppm2 1 706	8 145 ppm2 2 189		8 146 ppm2 1.480	8 146 ppm2 1 762		9 196 ppm2 3.393		9.196 ppm2 1 250	8 169 ppm2 1 596		8 498 ppm2 1 864	8 499 ppm2 1 239	8 565 ppm2 3 213	11 082 ppm2 8 475			11 082 ppm2 7.984	11.082 ppm2 5 450	8.610 ppm2 4 967	8.613 ppm2 3 344	9 680 ppm2 1 077	٠
0 10310E+03 ppm1 7 820 ppm2 1	volume 0 82185E+02 ppml 8 145 ppm2 2	0 55288E+02 ppml 8 147 ppm2 1	0 11141E+03 ppml 8 146 ppm2	ppm1 8 146 ppm2 1	0 61946E+02 ppm1 9 119 ppm2 8	volume 0 33211E+02 ppm1 9 196 ppm2	Volume 0 21672E+02 ppml 9 195 ppm2 3	volume 0 41596E+02 ppml 9.196 ppm2 1	0 66585E+02 ppml 8 169 ppm2 1	Volume 0 88198E+02 ppml 8 169 ppm2 2	volume 0 15860E+03 ppml 8 498 ppm2 1	volume 0 28520E+02 ppml 8 499 ppm2 1	8 565 ppm2 3	ppml 11 082 ppm2 8	0 18835E+03 ppm1 11.082 ppm2 7		ppml 11 082 ppm2	volume 0 229495+03 ppm1 11.082 ppm2	0 335868+02 ppml 8.610 ppm2 4	volume 0.37785E+02 ppml 8.613 ppm2 3	0 38100E+02 ppml 9 680 ppm2 1	0 33875E+02 ppml 9 661 ppm2 0
resid 42 and name RN )) 2 000 pert 12761 Weight 0 10000E+01 volume 0 10310E+03 ppml 7 820 ppm2 1	and name HN }} and name HN } peak 12851 weight 0 10000E+01 volume 0 82185E+02 ppml 8 145 ppm2 2 and name HN }}	reard 21 and name H012)) 1.600 peak 1288 weight 0 100008+01 volume 0 55288E+02 ppml 8 147 ppm2 1 reard 20 and name RN )) reseld 21 and name RN ))	celd 20 and name HN )) 2 000 peak 12891 weight 0 10000E+01 volume 0 11141E+03 ppm1 8 146 ppm2	esid 20 and name HO2t) 48id 17 and name HO2t) 1 600 peak 12901 weight 0 10000E+01 volume 0 53573E+02 ppm1 8 146 ppm2 1	reard 30 and name HN )) 1.700 peak 12991 weight 0 10000E+01 volume 0 61946E+02 ppml 9 119 ppm2 6	sead 26 and name MR3 )) 1300 peak 13021 weight 0 10000E+01 Volume 0 31211E+02 ppm1 9 196 ppm2	Edeald 26 and name HN ))  reset 3 and name HQ1 ))  1 000 peak 13031 weight 0 10000E+01 volume 0 21672E+02 ppm1 9 195 ppm2 3	NH )) HDZt) Weight 0 100006+01 volume 0 41596E+02 ppml 9.196 ppm2 1	esid 27 and name HN )) esid 26 and name (2011)) 1 700 peak 13061 weight 0 10000E+01 volume 0 66585E+02 ppm1 8 169 ppm2 1	sand 27 and name HN )} sand 38 and name HR ) 1 900 peak 13091 weight 0 10000E+01 volume 0 88198E+02 ppml 0 169 ppm2 2	and name HRV ) and name HRV ) peak 13111 weight 0 100006+01 volume 0 15640E+03 ppml 8 498 ppm2 1	ocad 59 and name HN )) 1200 peak 13131 weight 0 100006+01 volume 0 285206+02 ppml 6 499 ppm2 1	esid 60 or of name RN )) 1 900 peak 13161 weight 0 10000E+01 volume 0.93397E+02 ppml 8 565 ppm2 3	11 082 ppm2 8	and name HEI)) and name HEI)) and name HEI)) and name HI )) and name HI ))	(  wegad "BED" and read 12 and name HR1 )) ASS [13241] (  decid "BED" and read 22 and name HR2 ))	and name HEZ ))  **********************************	12 and hamm HE; ))	and name HN )) and name HN )) peak 13301 weight 0 10000E+01 volume 0 33586E+02 ppm1 8.610 ppm2 4	<pre>pD * and resald 7 and name HH )) D * and read 7 and name HH ) ) D * and read 7 and name HH ) ) D * and read 7 and name HH ) ) D * and read 7 and name HH ) ) </pre>	amid SG and name HM ))  **Add and name HM )  **Add and name HM )  **Add peak 13651 Weight 0 10000E+01 Volume 0 38100E+02 ppml 9 680 ppm2 1  **Add peak 13651 weight 0 10000E+01 Volume 0 38100E+02 ppml 9 680 ppm2 1	* and resid 56 and name HOJ) * and resid 61 and name HOZt) 1.200   1.300 peak 13561 weight 0.10000E*01 volume 0.33875E*02 ppml 9 681 ppm2 0

	1 558 8 655 7 489 7 616 7 616 8 154 8 154 5 464
8 000 ppm2 7 734 ppm2 7 734 ppm2 8 178 ppm2 7 739 ppm2 8 480 ppm2 12 276 ppm2 9 152 ppm2 9 151 ppm2 9 151 ppm2	9 153 ppm2 8 169 ppm2 9 139 ppm2 9 139 ppm2 9 187 ppm2 9 072 ppm2 6 660 ppm2 6 660 ppm2 6 599 ppm2 9 023 ppm2
0 442018+02 ppm1 0 130868+02 ppm1 0 130868+02 ppm1 0 139718+02 ppm1 0 101668+01 ppm1 0 161668+01 ppm1 0 516028+02 ppm1 0 516028+02 ppm1 0 126738+02 ppm1	0 12825E+02 ppm1 0 10602E+03 ppm1 0 14311E+02 ppm1 0 49074E+02 ppm1 0 3856SE-01 ppm1 0 53376ZE+03 ppm1 0 53376ZE+03 ppm1 0 -9596EE+02 ppm1 0 -62753E+01 ppm1
0 10000E+01 volume	0 10000E+01 volume
1 500 peak 150111 and name read 49 and name read 41 and name read 42 and name read 43 and name read 43 and name read 44 and n	Control   Cont
(	ASSI (1589)  ASSI (1689)
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2 042 ppm2	4.607 ppm2	3 274 ppm2	3 077 ppm2	4 704 ppm2	3 815 ppm2	4 654 ppm2	4 653 ppm2	3.669 ppm2	1 622 brane		3 522 ppm2	4 459 ppm2	3 619 ppm2	4 409 ppm2	0 0 0	zudd 605	5 000 ppm2	1 700 ppm2	2 093 ppm2	2 190 mm2	5			5 542 ppm2	4.359 ppm2	4 361 ppm2
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ceid 82 and name HA 1)	( segid "BiD" and zesid 70 and name 200 2 100 2 100 peak 1212 ASST ( 1222)	nt 0 11000E+01 volume	0 13310E+03 ppm1	1 305 ppm2
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eald 106 and name HA ))	3 916	0 11000E+01 volume	0 38399E+03 ppm1	0 761 ppm2
802 lame	3.702 (amptid fair) and result 78 and name (amptid fair) and read 78 and name (amptid fair) and name	0 11000E+01 volume	0.25846B+03 ppml	0 761 ppm2
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	3.300 2 700 2 200 peak 1352 ASST { 1362 ( eegyd "BYD " and resid 115 and name	0 11000E+01 volume	0 57522E+02 ppml	1 352 ppm2
eegid "BED" and resid 84 and name HA }) .eegid "BED" and resid 84 and name HB3 }) .eegid "BED" and resid 84 and name HB3 }) .eegid "BED" and resid 84 and name HB3 }) .2 600 1700 1700 pag. 900 pag.	(( uegid "Birb" and reset 115 and name 2 400 1 400 1 400 peak 1362 ASSI (1 3182) 400 1 400 peak 1362 ASSI (1 90014 Mich and and 116 and and 116 and and 116 and and 116 and 11	0.11000E+01 volume	0 44618E+03 ppml	1 352 ppm2
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soid to and name HA )) said to and name HB ). 2 Job capeak 952 wasght o 11000E+01 volume o 81254E+02 nnml 5 478	(( megrd 'BFD' and resid 116 and name 2.200   1200   1.200 peak 1402   1314   1	0 11000E+01 volume	0 69385E+03 ppm1	2 409 ppm2
Anne HA )) name HB )) 972 weight () 11000E+01 Volume () 23766E+03 ppm1 () 972	( oegid "Stp" and read 11s and name ( Oegid "Stp") and the oegid "Stp" and "Stp" a	0 11000E+01 volume	0 30727E+03 ppm1	1 920 ppm2
and 77 and name (A) ) 1 for each name (B) ) 1 name (B) )	( aegla "bpc" and read lis and name ( aegla" bpc" and read lis and read ( aegla" bpc" and read ( aegla" bpc") and read ( aegla" b	0 11000E+01 volume	0 32118E+03 ppm1	1 403 ppm2
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1 out peak 1012 Weight o 991d 117 and name HB1 ))	5.167	0 11000E+01 volume	0 85569E+03 ppml	1 399 ppm2
1 700 peak 1042	5 167 (5)	0 11000E+01 volume	0 33669E+03 ppm1	1.399 ppm2
2 100 peak said 89 and	899 €	0.11000E+01 volume	0.40202E+03 ppm1	2 338 ppm2
2 000 peak 1062 esid 18 and name	3 491 (4834 (1847) and teatd 110 and name HGZN) (18914 'BED and teatd 110 and name HGZN) (18914 'BED and 1891 11 200 teat 110 teat 110 and name HGZN) (18914 '821) 1 200 teat 143 weapill	0 11000E+01 volume 0	74299E+03	
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d resid 112 and 1 800 peak	fresid 112 and r fresid 112 and r 1 300 peak 2	esid 94 esid 94 1.800	resid 92   resid 92   1 400	resid 87 and r resid 87 and r 2 100 peak 2	esid 87 esid 87 1 600	resid 61 and r resid 61 and r 1 300 peak 5	resid 61 resid 61 2 000	esid 42 esid 42 1.400	esid 36	esid 79 esid 79 1 700	esid 29 esid 29 1 000	sid 29	said 23	seld 23 1 400	1 600	sid 80 81d 80 2.000	resid 66 resid 66 1 800	es1d 66	1.600 mend 9	1 300 p	2 100 peak 2	resid 102 and resid 102 and 1.800 peak	resid 102 and r resid 102 and r 1 800 peak	resid 10 resid 10 1 600
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0 11000E+01 volume 0.33733E+03 ppm1 1 842 ppm2 1	E+03 ppml 4 805 ppm2 2	ppml 4.805 ppm2 2	ppm1 2 487 ppm2 1	1 499 mm2 4		Volume 0 88262E+03 ppml 1 500 ppm2 2	110008+01 volume 0 64971E+03 ppml 1 254 ppm2 2	11000E+01 volume 0 20000E+03 ppm1 1 254 ppm2 2	11000E+01 volume 0 63602E+03 ppml 1 253 ppm2 4	11000E+01 volume 0 44257E+03 ppm1 2 662 ppm2 4	Volume 0 37194E+03 ppml 2 287 ppm2 4	11000E+01 volume 0 64884E+03 ppm1 1 599 ppm2 4	11000E+01 volume 0 13727E+03 ppml 5 296 ppm2 2	11000E+01 Volume 0 16645E+03 prem; s 945 mms s	T sudd one of total one of the state of the	Signal Communication of the co	Volume 0 22485E+03 ppml 5 296 ppm2 1	Volume 0 65439E+02 ppml 5 296 ppm2 1	volume 0 34992E+03 ppml 2 538 ppm2	11000E+01 volume 0 19887E+03 ppm1 2 538 ppm2 1	volume 0 26127E+03 ppml 2 883 ppm2 1	11000E+01 volume 0 25187E+03 ppml 2 883 ppm2 1	1.400 ppm2 4	0 20094E+03 ppml 1 401 ppm2
and name HB2 )) and name HD14) peak 2472 weight 0 11000E+01 volume 0.33733E+03 ppml 1 842 ppml 1	and name HJ.)) and name HJ.) that name HJ. ) 110005+01 volume 0 11007E+01 ppm. 4 805 ppm. 2	and name HA )) and name HA )) and name (A ) 1000E+01 volume 0 27034E+03 ppml 4.605 ppm2 2	and name HB2 }} and name HB2 }} and sets from a 33597E+03 ppm1 2 487 ppm2 1.	and name HD21) pack name HBA )) pack taste EtA )1000E+01 volume 0 64867E+03 nzm1 1 449 nzm2 4	and name HO24)	pear 2554 Weight 0 1100UE+01 Volume 0 83262E+03 ppml 1 500 ppml 2 and hame HD2#) and hame HD2#)	peak 2602 weight 0 110008+01 volume 0 64971E+03 ppml 1 254 ppm2 2 and nonem HD24)	Peak 2612 Weight 0 110008+01 volume 0 200008+03 pkml 1 254 ppm2 2 and name #DDM)	peak 2622 weight 0 110008+01 volume 0 636028,03 ppml 1 253 ppm2 4 and name HB1)	Annual Annual HB2 ))	and name NA )) peak 2 decight 0 110005.01 volume 0 37194E+03 ppml 2 287 ppm2 4 and name 1734	and tames filts)  and tames 18.3 );  peak 2682 weight 0 1100005.01 volume 0 64884E+03 ppml 1 599 ppm2 4	and name HA ) ) and name HH ) ) peak 2702 weight 0 11000E+01 volume 0 13727E+03 ppml 5 296 ppm2 2	and name HA )) pand name HB ) sat 112008-01 volume 0 lä6458-03 nam 6 92 mm 9 9	and name (IA. ))	and name HD11)	Deak 2732 weight 0 11000E+01 Volume 0 22485E+03 ppm. 5 296 ppm2 1 and name H2A ) and name H2A )	Peak 2742 weight 0 11000E+01 volume 0 65439E+02 pgml 5 296 ppm2 1 and name HR2 )) and name HR2 ))	Peak 2752 weight 0.11000E+01 volume 0.34992E+03 ppml 2 538 ppm2 and hame HES1.	peak 2762 washt 0 11000E+01 Volume 0 19887E+01 ppm1 2 538 ppm2 1 and name HB1 ))	and name HD14) pask 2772 Wcight 0 110006-01 volume 0 26127E+03 ppml 2 863 ppm2 1 and name HB1 ))	and hanne HD21) peak 2792 Weight 0 11000E+01 Volume 0 25187E+03 ppml 2 883 ppm2 1 and name 10231	and hame NA )) peak 2852 weight o 11000E+01 volume 0 89872E+02 ppml 1.400 ppm2 4 and name RJD24)	name HG )) 2862 weight 0 11000E+01 volume 0 20094E+03 ppml 1 401 ppm2 name HA ))
and name HB2 )) and name HD14) peak 2472 weight 0 11000E+01 volume 0.33733E+03 ppml 1 842 ppml 1	and 71 and name HA ]) and 71 and name HA ]) and 71 and name HA ]) (C. Cho peak 252 weight 0 11000E+01 volume 0 31007E+03 ppml 4 805 ppml 2	Ind resid 75 and name HA )) Mid seed 73 and name HO )) No roo peak 5424 weight 0 11000E+01 volume 0 27034E+03 ppml 4.805 ppm2 2	esad 73 and name HB2 }) 1 and name HB2 }) 1 and paak 25/2 veght 0 11000E+01 volume 0 37597E+03 ppm1 2 487 ppm2 1	tD " and reald 73 and name HD21)  10 and reald 73 and name HD 1  1 200 1 200 peak 2528 besight 0 110008-01 volume 0 648678-03 pom! 1 499 nome 2	eelid 73 and name HD24)	A 100 pent, 252 weight 0 12000E401 Volume 0 88262E403 ppml 1 500 ppm2 2 2 Ppm and Yeard 56 and name HD21)	1 200 peak 2602 waight 0 110008+01 volume 0 649718+02 pgml 1 254 ppm2 2 2 maint have HT24)	1 800 peak 2612 weight 0 110008+01 volume 0 200008+03 pgml 1 1254 ppm2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 200 peak 2622 weight 0 110008+01 volume 0 636026+03 pgml 1 253 ppm2 4 enem 22 2 and name HE1)	1 400 peak 2552 woight 0 11000E+01 Volume 0 44257E+03 ppml 2 682 ppm2 4 5252 and name HB2 )}	seadd 22 and name HA )) 1400 peak 2662 wcight 0 110006.01 volume 0 37194E-03 ppml 2 287 ppm2 4 8664 22 and name 18734	20.00 20.00 1.00 20.00 1.00 20	sold 63 and name HA )) 2 100 peak 2702 weight 0 11000E+01 volume 0 13727E+03 ppm1 5 256 ppm2 2	993d 63 and name HA ]) 180d peak 2712 WHR2 ) 180d peak 2712 WHR2 )	and name (IA. ))	and and name HO.1)	1 800 pank 2732 weight 0 11000E+01 Volume 0 22485E+03 ppml 5 296 ppm2 1 seat 63 and name HA )) seat 63 and name (HA ))	2 200 peak 2742 weight 0 110008+01 volume 0 654398+02 pgml 5 296 ppm2 1 seed 63 and name HP2   )	Peak 2752 weight 0.11000E+01 volume 0.34992E+03 ppml 2 538 ppm2 and hame HES1.	1 800 peak 2762 wash 0 11000E+01 volume 0 19887E+01 ppm1 2 538 ppm2 1 read 63 and name HB1 )	bead 63 and name HD14; 1.700 peak 2772 weight 0 110006.01 volume 0 26127E+03 ppml 2 863 ppm2 1 8646 63 and name HB11))	and 63 and mame HD21) 1700 peak 2792 weight 0 11000E+01 volume 0 25187E+03 ppml 2 883 ppm2 1 1814 3 and name 181311	resid 14 and name KA ); 2 400 peak 2852 weight o 11000E+01 volume o 89872E+02 pgml 1.400 ppm2 4 (ceb.dl 4 and name HP21)	cend 14 and name HG )) 1.400 peak 2862 weight 0 11000E.01 volume 0 20094E.03 ppml 1 401 ppm2 (celd 24 and name HA ))

## CASICBIL GREEGO

4 436	4 286	5 021	5 021	5 144	5.144	2 973	2 636	4 337	4 337	5 114	5 114		4 8 9 9	3 789	3 789	,	346	2 346	2 940		2.851	4 518	1 652		1 651	1.651	3.453
635 ppm2	635 ppm2	2.487 ppm2	831 ppm2	407 ppm2	263 ppm2	096 ppm2	098 ppm2	631 ppm2	981 ppm2	729 ppm2	645 ppm2		657 ppm2	519 ppm2	2.598 ppm2	9 0	zudd ere	598 ppm2	4.803 ppm2		803 ppm2	155 ppm2	154 ppm2		1.253 ppm2	338 ppm2	3 076 ppm2
ppm1 2	ppm1 2	ppm1 2	ppm1 2	ppm1 4	ppm1 4	ppm1 s	ppml s	ppm1 2	ppm1 2	ppm1 2	ppm1 2	į	Ppm1	ppm1 2	ppml 2.	c	T MAIN	ppm1 2	ppm1 4.		ppm1 4	7				2	
	87712E+03 p	24482E+03 p	36862B+03 p	89203E+03 p	0.93259E+03 pl	42716E+03 pl	27521E+03 p	16780E+03 PE	70033E+02 PE	14259E+03 PE	22601E+03 PF	103100.04		14970B+03 pp	0 14619E+03 pp	106418403	3	80668E+02 pp	0.93117E+02 pp		0.10971E+03 pp	\$1678E+03 ppm1	27804E+03 ppm1		35399E+03 ppm1	60399E+02 ppm1	0 277158+03 ppm1
volume 0.	volume 0	volume 0	volume 0	volume 0	volume 0.	volume 0	volume 0	volume 0	volume 0	volume 0	volume 0	- d	>	volume 0 1	volume 0 1	e o municos	•	volume 0 8	volume 0.9		volume 0.1	volume 0 5	volume 0 2		volume 0 3	volume 0 6	
0 11000E+01 volume 0.11498E+04	0.11000E+01	0 110006+01	0 110006+01	0 11000E+01	0 11000E+01	0 11000E+01	0 11000E+01	0 11000E+01	0.11000E+01	0 11000E+01	0 11000E+01	110006101		0 11000E+01	0.11000E+01	110008+01		11000E+01	11000E+01		0.11000E+01	0 11000E+01 v	0.11000E+01 v		11000E+01 v	11000E+01 v	0.11000E+01 volume
and name HD1 )) peak 3682 weight	Begid "BID" and resid 8 and name HD2 ]) 2.100	segid "BrD " and reeld 8 and nume 2 500 1 700 1 700 peak 3702 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	segid "BrD" and record and name HA )) 2.400 1 400 1.400 peak 3712 weight (3722)	({ segid "BrD" and resid 8 and name HD1)) ({ segid "BrD" and resid 7 and name HA }) 2 100 1 100 1 100 peak 3722 weight 0 ASSI { 3732}	(( wegld "BrD " and reald 8 and name HD2 )) (( wegld "BrD " and reald 7 and name HA )) 2 100 1 100 1 100 peak 3732 weight 0	(1 segud "BrD" and resid 44 and name HA )) (( segud "BrD" and resid 44 and name HB1 )) 2 400 1 400 1.400 peak 3752 weight OASE ( 376.)	segid "BrD " and segid "BrD " and 2 600 1 700 { 3792}	segid "BrD " and segid "BrD " and 2 800 2 000 { 3802}	egid "BrD " and resid 44 and name HB1 )) sgid "BrD" and resid 44 and name HD1 )) 200 2 600 Z 300 peak 3802 weight 3823	segid "BrD" and reald 44 and name HO1 )) segid "BrD" and reald 44 and name HA )) 2 900 2 100 2 100 peak 3822 weight 3 3823	segid BrD " and reald 44 and name HG2 )) segid BrD " and reald 44 and name HA )) 2 700 1 800 1 800 peak 3832 weight	ASS1   3042} (( segid "BrD" and reeld 41 and name HA )) (( segid "BrD" and reeld 41 and name HB )) 1 900 0900 Deak 1842 walchf 0	sid 103 and name	eegid "BxD " and resid 103 and name HA )) 2 800 2 000 2 000 peak 3882 weight { 3892}	(( eegid "BrD " and resid 103 and name HG1 )) (( segid "BrD " and resid 103 and name NA )) 2 900 2,100 2 100 peak 3892 weight 0	(1 segid "BrD " and resid 103 and name Hd2 )) ((segid "BrD" and resid 103 and name HB1 )) 3.000 2.200 2300 peak 3912 weacht o	d resid 103 and name	Begid "Bru" and resid 103 and name 3 200 2.600 2 300 peak 3922 { 3942}	(( segid "BFD" and resid 48 and name HA )) (( segid "BFD" and resid 48 and name HGI )) 3.100 2 400 2 400 peak 3942 weight 0	rD " and resid 46 and name HA ))	eard 50 and name HD1%)	Begrd "BrU " and resid 50 and name HA )) 2 300   1 300   1 300 peak 3982 weight { 4012}	segid "BrD " and resid 110 and name HD1%) segid "BrD " and resid 110 and name HG12}) 2.600 1 700 1 700 peak 4012 weight	Name HG2*)	2 500 1.600 1 600 peak 4022 weight 0 (4032) 6013   and resid 110 and home HR ))	resid 110 and name HG12)) 2.200 peak 4032 weight 0	1.00.4 eegid "BrD" and resid 24 and name HBl  ) oegid "BrD" and resid 24 and name HGl  ) 2.600 1 700 1 700 peak 4052 weight
2 633		4 656		016	2.473	2 214	4 297	4 507	4 296	3 526	3 522	4 995	4 942		. 643	2 704	1 994	;	1 411	1.411	3.195		0 766	0 765	3 093	متر	1 895
4 657 ppm2	4 656 ppm2	2 366 ppm2			4 656 ppm2	4 310 ppm2	2 290 ppm2		1.895 ppm2	1 895 ppm2	2 192 ppm2	4 805 ppm2	2 933 ppm2		2 586 ppm2	4 805 ppm2	3 029 ppm2		3 027 ppm2	3 176 ppm2	1 994 ppm2	;	3 080 ppm2	1 896 ppm2	1 892 ppm2		4 806 ppm2
0 87442E+03 ppm1	0.31692E+03 ppml	0.10458E+04 ppml	0 172378403 comp		0 97545E+03 ppm1		34161E+03	22305E+02	37229E+03	28547E-	0 21736E+04 ppml	0 29577E+04 ppm1	0 52164E+03 ppm1		o 61125E+03 ppmi	0 52974E+03 ppm1	0.30326E+03 ppm1		0 227195+03 ppm1	0 23490E+03 ppml	0 22693E+03 ppm1		130368+03 ppml	0 49629E+03 ppm1	0 24556E+03 ppm1		0 14893E+03 ppm1
0 11000E+01 volume	0 11000E+01 volume	0 110005+01 volume	0 11000E+01 volume		0 11000E+01 volume				volume	110006+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume		0 11000E+01 VOLUME	0 11000E+01 volume	0 11000E+01 volume		Not nine	0 11000E+01 volume	0 11000E+01 volume		TIONOSTOT AOTAWG O	11000E+01 volume (	0.11000E+01 volume		0 11000E+01 volume (
ASST ( 2242) (( degid 'bzD' and zesid 104 and hame MA )) (( eegid 'bzD' and zesid 104 and hame MB1 )) 2.100 1 100 Peak 3242 sesight		(1 cegad "BrD" and resid lll and name HB2 )) (( cegad "BrD" and resid lll and name HA )) 2 100 2 100 1 100 peak 3292 weight	ASSI ( 3312)     (( segid "BrD" and reald 111 and name HA ))     (( segid "BrD" and reald 111 and name HG2 ))     (2 segid "BrD" and reald 111 and name HG2 ))     2 800	esid 111 and name HA ))	1 100 1 100 peak 3332 Weight IND " and resid 19 and name HA ))  "TO " and resid 19 and name HD1 ))	2 400 peak 3362 resid 19 and name	1 500 1 500 peak  "BrD " and resid 19 and "BrD " and resid 16 and	3 500 1.500 peak 3382 weight 3382, said and zesid 19 and name HGI ) gid "BrD" and zesid 19 and name HA ))	3402) 1 400 peak 3592 weight 3402) 3402) 3402 and reard 19 and name HG1 )) 5916 "BrD" and resid 19 and name HEI ))	bou 1 700 1 700 peak 3402 weight 3412 }	800 0 800 0 800 peak 3412 weight 3423 1 3428	1 700 0 700 0 700 peak 3422 { 3452} segid "BrD" and resid 11 and name	8691d "BrD " and resid 11 and name HA )) 2 300 1 300 1 300 peak 3452 weight 3462}	agid "BrD " and resid 11 and name HB2 ))  914 "BrD " and resid 11 and name HA ))	"BrD " and resid 97 and name HA }) "BrD " and resid 97 and name HB1 })	300 1 300 1.300 peak 3492 weight 3532) 9532	<pre>#gid "bro" and regid 109 and name 500</pre>	(( segid "BrD " and resid 109 and name HE2 )) (( segid "BrD" and resid 109 and name HG1 )) 2 700 1 800 1 800 resid 342 member 5	eald 109 and name	2 600 1 700 1 700 peak 3552 weight { 3562} segid "BrD" and resid 109 and name HDI ))	eegid "BrD " and resid 109 and name HR1 }) 2 700 1 800 1 800 peak 3562 weight { 3602}	segid "BrD " and reaid 86 and name HEl )) segid "BrD " and reaid 86 and name HGE )) 9 900 2 100 2 100 mask 2000 masks	1 resid 86 and name HD1 ))	2 300 1 300 1.300 peak 3612 [ 3622] and resid R and resid R and resid R and resident	negld "BrD " and regid 86 and name HEL) ) 2 600 1 700 1 700 peak 3622 weight	d resid 86 and name	3632 weight name HG1 ))

#### COSIOSI4 . COSSOO

2 342	4 940	2 385	3 447	3 447	,	2 368	2.694	2 702		2 360	2 464			2 062	2 155		2 466	3 453	1 637	427		44	4 533	2 290	4 800	2 172	2 149	
2 781 ppm2	2 236 ppm2	4 953 ppm2	2 781 ppm2	838		1 549 ppm2	4 606 ppm2	1 600 ppm2		4 704 ppm2	4 655 ppm2	2		4 655 ppm2	1 401 ppm2		1 401 ppmz	2 989 ppm2	4 412 ppm2	1 796 ppm2		and tok.P	S 444 ppm2	3 571 ppm2	2,110 ppm2	3.569 ppm2	4.653 ppm2	
0 10618E+04 ppm1	0 152748+03 ppm1	0 39636E+03 ppml	0 27554E+03 ppm1	0 105228+03 ppml		0 81939E+03 ppml	0 31507E+03 ppm1	0 35307E+03 ppml		43065E+03 ppm1	40350E+03 ppm1	242018403		16298E+03 ppml	12176E+03 ppm1		Twid 504365087	0.20235E+03 ppm1	28433E+03 ppm1	50491E+03 ppm1	0000	rudd co+sccoor	13412E+03 ppm1	17529E+04 ppml	42230E+03 ppm1	69710E+03 ppml	10760E+04 ppm1	13416E+04
0.11000E-01 volume	11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume (	0 11000E+01 volume (		0.11000E+01 volume (	0 11000E+01 volume (	0 11000E+01 volume (		11000E+01 volume 0	11000E+01 volume 0	11000E+01		11000E+01 volume 0	11000E+01 volume 0	0 2000000		0 11000E+01 volume 0	11000E+01 volume 0	0 11000E+01 volume 0			11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	volume
(( cmcgid "BFD " and resid 36 and name HB2 )) 2	( negy1 TPD and resid 9 and name HGJ )) ( cey1 TPD and resid 9 and name HA) ( cey1 TPD and resid 9 and name HA)  2 000 2 000 2 000 8 4562 weight 0	segad "BrD" and resid 9 and name HA )) segad "BrD" and resid 9 and name HB2 )) segad "BrD" and resid 9 and name HB2 ))	(4024) (4024) and resid 35 and name HB2 )) segid "BrD " and resid 35 and name HG1 )) 2 600 1 700 peak 4592 weight	{ 4602} segud "BrD" and resid 35 and name HB1 }) segud "BrD" and resid 35 and name HG1 )) 3 000 2 2 200 2 200 peak 4602 weight	and name HD1%)	1 100 peak 4632 weight	<pre>segid "BrD " and resid 56 and name HBl )) 2 500    1 600    1 600 peak 4642 weight { 4652}</pre>	wegid "BrD " and resid 22 and name HD2%) segid "BrD " and resid 22 and hame HB1 )) 2 500 1 600 1 600 peak 4652 weight	esid 22 and name HA ))	1 400 peak 4662 weight 0	1 400 peak 4722 weight 0	segid "BrD " and resid 14 and name HA )) segid "BrD " and resid 14 and name HB2 )} 2 500 1 600 1.600 neak 4732 weight 0	cold 14 and name HA ))	Begin BrD and resid 14 and name HG ]) 2 800 2 000 2 000 peak 4742 weight 0 {4752}	<pre>segid "BYD" and resid 14 and name ND2*) segid "BYD" and resid 14 and name NB2 }) 2 900</pre>	ASS1 ( 4/02) and read 14 and hame HD24) ( eegtd "BLD" and read 14 and hame HB1) ) ( eegtd "BLD" and read 14 and hame HB1) )	reald 24 and name HB2 ))	2 700 1 800 1 800 peak 4782 weight [ 4812]	segid BrJ and readd 25 and name HA }) segid BrD and readd 25 and name HG24] 2 600 1 700 1 700 peak 4812 weight 0	1 402.4 Begid "BID" and resid 25 and name HG1%) Begid "BID" and resid 25 and name HA )) 2 300 1 300 1 300 peak 4822 weight	rD " and resid 30 and name HB1 )) 'Y and resid 30 and name HA )) 'I And resid 30 and name HA ))	BrD " and resid 30 and name HA     "BrD " and resid 30 and name HB2	eak 4852 weight 0 and name HE1 ))	Begid "BID" and resid 104 and name HDI )) 1.900 0 900 0.900 peak 4862 weight 0 [ 4912]	begin bin and resid 57 and name Hul )   2 400 1 400 1 400 1 400 peak 4912 weight 0   4020   4020	feedid "BED" and resid 97 and name HE1 )) segid "BED" and resid 97 and name HO2 )) 2 200 1 200 1 200 peak 4922 weight 0	[ 494.2] eagid "BFD" and resid 109 and name HA )) segid "BFD" and resid 109 and name HB2 )) 2 000 1.000 1 000 peak 4932 weight 0	and name HA )) and name HB1 )) sak 4942 weight
	2 347	2 573	2 535	2 469	1 806	4 168		3.716	3 716	696		2 131	1 399		1 /18	1 409	0.840	1 407	·	4 516	2 515	1 653	2 357	2 346	2	2.511	2.357	4 369
	3 956 ppm2	3 956 ppm2	4 263 ppm2	4 263 ppm2	4 261 ppm2	1.058 ppm2		0 761 ppm2	1 059 ppm2	2 929 ppm2		3 866 ppm2	2 409 ppm2	666	riidd bee y	4 506 ppm2	1 797 ppm2	1 797 man		1 797 ppm2	4 359 ppm2	4 358 ppm2	4 358 ppm2	2 487 Prim3	i	1 642 ppm2	1.642 ppm2	1 596 ppm2
	0 11000E+01 volume 0 37330E+03 ppm1	0 11000E+01 volume 0 22342E+03 ppml	0 11000E+01 volume 0 25152E+03 ppml	11000E+01 volume 0 23036E+03 ppm1	0.11000E+01 volume 0 31941E+03 ppm1	0 11000E+01 volume 0 50428E+03 ppm1		0 11000E+01 Volume	11000E+01 volume 0 43496E+03 ppml	11000E+01 volume 0 67869E+03 ppml		11000E+01 volume 0 15123E+03 ppm1	0 11000E+01 volume 0 31982E+03 ppm1	0 11000Ein to the contract to the contract of		0 11000E+01 volume 0 24102E+03 ppml	11000E+01 volume 0 20938E+03 ppm1	11000E+01 volume 0 20876E+03 ppm1		0 11600E+01 volume 0 11875E+03 ppm1	11000E+01 volume 0.19815E+03 ppml	11000E+01 volume 0 25295E+03 ppm1	11000E+01 volume 0 24995E+03 ppm1	0 11000E+01 volume 0.13199E+03 premi		0 11000E+01 volume 0 17027E+03 ppml	11000E+01 volume 0.65087E+03 ppm1	0 11000E+01 volume 0.39582E+03 ppm1
ASSI { 4062} (( segid "ELD" and resid 80 and name HDI )) (( segid "BLD" and resid 80 and name HOI ))	10 1.400 peak 4062 weight and resid 80 and name HDI }}	2 700 1 800 1.800 peak 4072 weight ( 4112) segad "BrD" and resid 101 and name HA )) secatd "BrD" and resid 101 and name HR ))	2 600 1 700 1 700 peak 4112 weight { 4122} segical BrD and reaid 101 and name HA ) segical BrD and reaid 701 and name A0111)	2 600 1 700 1 700 peak 4122 { 4132} sepid **ED** and read 101 and name seard **ED** and read 101 and name seard **ED** and read 101 and name seard **ED** and name search **ED** and name se	2 500 1.600 1.600 peak 4132 weight 4142) 8604 820 and reads	HA 1)	segid "BrD " and resid 81 and name HG2%) segid "BrD " and resid 81 and name HA ))	HG14)	2 400 1 400 1.400 peak 4182 (4212)	segid "BrD " and resid 69 and name HB )) segid "BrD " and resid 69 and name HA )) 2 200 1 200 1.200 peak 4212 weight 0	esid 18 and name HA )}	2 800 2 000 2 000 peak 4222 weight o {4272} 8egid "BrD" and resid 116 and name HB })	0egid "BrD " and resid 116 and name HDI%) 2 500 1 600 1 600 peak 4272 weight { 4282}	begyd "BrD " and reald 110 and name HB )) segyd "BrD " and reald 110 and name HG11) 3.100 2.400 2.400 Deak 4282 weight	esid 50 and name HA ))	1 700 peak 4302 weight resid 50 and name HB ))	esid 50 and name HG12}} 1 800 peak 4322 weight 0	irD " and resid 50 and name HB )) irD " and resid 50 and name HGll)) 1.800 1 800 peak 4332 weight 0	resid 50 and name HB ))	3.000 2 200 2 200 peak 4342 weight [4382] 8 seglad "BD" and resid 21 and name HA))	veglu ort and resid 1 and hame HB )) (4392) 9egld "BtD " and resid 21 and name HA ))	aegid "BrD " and resid 21 and name HG12)) 2.600 1 700 1.700 peak 4392 weight 0 (4402)	2-51. It min resid 1 and name HA }} segid "BrD" and resid 21 and name HG11)} 2 600 1 700 1 700 peak 4402 weight 0 { 4412}	rD " and reald 21 and name HB )) rD " and reald 21 and name HG11) 2 100 2 100 peak 4412 weight	cold 21 and name HG12))	2 000 peak 4472 weight reold 21 and name HG12))	1.200 peak 4482 weight 0 cold 21 and name HG2k)	1914 1.70 and replace and tame An ) 1400 4014 4502 weight 4512 4512 and replace 3 and name HGI ))

į	4 686	4 687	1 796	1 946	4 468	4.68	3 606	3 606	1 945	1 795	4 463	3 654		3 533	4 517	2 847		2.847	2 931	2.931	3 530	4 507	4 297	Š	572	4 911
	2 780 ppm2	2.487 ppm2	4 459 ppm2	4 459 ppm2	1 945 ppm2	1.795 ppm2	1 946 ppm2	1 796 ppm2	3 577 ppm2	3 577 ppm2	3 578 ppm2	5 592 ppm2		5 592 ppm2	3 228 ppm2	3 227 ppm2		3 523 ppm2	3 523 ppm2	3 227 ppm2	4 509 ppm2				6 6	3.137 ppm2
	0.77735E+03 ppml	0 13443E+03 ppm1	o 54723E+03 ppml	0 38819E+03 ppm1	0 20757E+03 ppm1	0 37628E+03 ppm1	0,16452E+03 ppm1	0 40668E+03 ppm1	0 36659E+03 ppml	0 38417E+03 ppm1	0 20141E+03 ppml	0.31370E+03 ppm1		0 16779E+03 ppml	0 19830E+03 ppm1	0 27353E+03 ppm1		0 48028E+03 ppml	0.21586E+03 ppml	0 21836E+03 ppm1	0 16121E+03 ppm1	0 12463E+03 prami	.27005E+03	3	89029E	39102E+03
	0 11000E+01 volume	0.11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0.11000E+01 volume	0 11000E+01 volume	0.11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume		0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume		0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	volume	0.1000011	volume	volume
	segid "BrD " and resid 53 and name 2 200 1 200 1 200 peak 5282 { 5292}	wedtd "brb " and reeld 53 and name segid "Brb " and reeld 53 and name 2 900 2 100 2 100 peak 5292 { 5302}	and resid 51 and name and resid 51 and name to 1 300 peak 5302	resid 51 resid 51 1 400 pe	segid "BrD" and resid 51 and name HB1 )) segid "BrD" and resid 51 and name HA )) 2.700 1 800 1 800 peak 5332 weight (5342)	aggid "BrD " and resid 51 and name HB2 )) aegid "BrD " and resid 51 and name HA }) 2 400 1 400 1 400 peak 5342 weight (4,772)	degid "BrD " and resid 51 and name HG1 )) degid "BrD " and resid 51 and name HD1 }) 2 800 2 000 peak 5372 weight f star)	(1921d "BFD " and resid 51 and name HO2 )) uegid "BFD " and resid 51 and name HD1 )) 2 400 1 400 1 400 peak 5382 weight f 4103)	1936   1980   and resid 51 and name HD1  )   segid "BrD " and resid 51 and name HB1  )   2 500   1 600   1 600 peak 5392 weight   facts	esid 51 and name HD1)) esid 51 and name HB2)) 1 400 peak 5402 weight	1 ( 9421) and resid 51 and name HD1 )) ( segid "BFD" and resid 51 and name HA )) ( segid "BFD" and rame HA )) ( 5700	( 3424) aegid "BrD" and reald 52 and name HA )) aegid "BrD" and reald 52 and name HB1 )) 2 500 1 600 1 600 peak 5422 woight	eold 52 and name	2 000 peak 5432 resid 75 and name	and 75 and name 1 800 peak 5462	<pre>segid "BED" and resid 75 and name HG2  ) uegid "BED" and resid 75 and name HB2  ) 2 600 1 700 1 700 peak 5482 Weight</pre>	re	1 300 peak 5492 resid 75 and name	resid 75 and name HB1 )) 1 800 peak 5502 weight	segid "BID" and reald 75 and name HGZ )) segid "BID" and reald 75 and name HBI )) 7 00 1 800 1 800 peak 5512 weight	( Jaze HA )) segid "BrD" and resid 75 and name HA )) segid "BrD" and resid 75 and name HOI )) 2 800 2 000 2 000 peak 5522 weight	{ 5542} segid "BrD" and reaid 19 and name HB2 }) segid "BrD" and resid 16 and name HA }) 2.900 2 100 2.100 peak 5542 weight	rD " and resid 19 and name rD " and resid 19 and name 1 700 1 700 peak 5552	and	resid 97 and name resid 97 and name 2 400 peak 5592	resid 59 and name HG2 )) resid 59 and name HA )) 1 400 peak 5622 weight
	))	)) ))	(( ((	)) ((	)) ()	1554	))) ))	1554					ASSI ( )	ASSI	ASSI		Tagy	ASSI (	ASSI.				) 1884 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	Assi (	ASSE (	ASSI (
	;		1 417	4 639	4 639	4 812	4 671	4 901	4 451	4 705	4 542	4 861	4 805	4 460	: :		2 587	4 291	6	200	2 961	2 961	4 858	4 858	4 298	N 40 40
					3 029 ppm2	0 761 ppm2	1.844 ppm2	1 845 ppm2	1 649 ppm2	1 649 ppm2	1 747 ppm2	1 745 ppm2	1 893 ppm2	1 894 ppm2	,	Francis Domin	4 853 ppm2	2 585 ppm2	Canada C. C.C. C.	amold cor a	2 733 ppm2	2 584 ppm2	2 935 ppm2	2 290 ppm2	2 935 ppm2	4 214 ppm2
			36408E+03		0 16510E+03 ppm1	0 18063E+03 ppm1	0 76022E+03 ppml	0 12138E+04 ppm1	0 10840E+04 ppm1	0 14547E+04 ppml	0 54601E+03 ppml	0 92706E+03 ppm1	0 10099E+04 ppm1	0 64890E+03 ppm1		Tudd soesees o	0 80336E+02 ppm1	0 49428E+03 ppm1			0 51291E+03 ppml	0 56233E+03 ppml	0 64791E+03 ppm1	0 38926E+03 ppm1	0 35025E+02 ppm1	0 65454E+02 ppm1
	See to Spoot of			5	0.11000E+01 volume	0 11550E+01 volume	0 11000E+01 volume	0.11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 110000 to 000000		0 11000E+01 volume	0.11000E+01 volume	o 110008±01		0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume
	rD " and resid 109 and name HB2 1) D" and resid 109 and name HG1 ) And 1 And resid associated	CD and resid 109 and name HB1 )) (F) and resid 109 and name HB1 )	resid 109 and name HGI ))	eald 109 and name HE2 ))	2 000 2 000 peak 5002 Weight DD and resid 86 and name HG2 ))	2 000 peak 5012 esid 41 and name	2 200 1 200 1.200 peak 5022 weight [ 5022] 1 5 5021 weight segld "BrD" and reold 41 and name HG24) segld "BrD" and reold 41 and name HB ))	1 000 peak 5032 weight esid 58 and name HG2#) esid 58 and name HA ))	1 000 peak 5042 weight celd 58 and name HG2t) esid 58 and name HB }]	0 900 peak 5052 weight esid 17 and name HG2*)	peak 5062 weight and name HG2*)	1 100 peak 5072 weight esid 83 and name HG2t)	1 100 peak 5082 weight	NED " and resid 83 and name HGZV) NED " and resid 83 and name HA  ) 1 200 1.200 peak 5092 weight	cend 37 and name HA )) cend 37 and name HG1 ))	ceald 37 and name HA ))	2.300 peak 5132	9514 "BrD " and resid 37 and name HD1 )) 2 300 1 300 1 300 peak 5162 weight (	(segid "BrD" and reold 37 and hame HG1)) (segid "BrD" and restd 37 and name HD1)) 2 500 1 600 1 600 meak 512 weight 6	said 37 and name	1 300 peak 5182 weight esid 37 and name HO2 )	1 300 peak 5192	and name HA )) peak 5202 weight and name HB2 ))	cold 37 and name HA }) 1 400 peak 5212 weight esid 37 and name HB1 })	resid 37 and name HD1 )) 1 900 peak 5222 weight resid 53 and name HD1 ))	rD * and resid 52 and name HA )) 2 700 2 200 peak \$272 weight rD * and resid 53 and name HBl ))
	ASSI { 4962 (( segid (( eegid 2 500	ASSI { 4972} ( segid "Bi ( segid "Bi ( segid "Bi ) 5 501	ASSI ( 4982 (( segid (( segid	ASSI ( 5002 (( segid (( segid	2 800 ASSI { 5012 } (( segid "B) (( segid "B)	2 800 ASSI { 5022] ( segad '	2 200 ASSI ( 5032) ( segid "	2 000 ASSI ( 5042) ( segid " (( segid "	2 000 ASSI { 5052} ( segid " ( segid "	1 900 ASSI { 5062} ( segid "	2 300 ASSI ( 5072) ( segid "	ASSI { 5082}	(( segid "Br 2 100 ASSI ( 5092)	(( segid "B	( segid " ( segid " ( segid " )	ASSI { 5132} (( Begid "	3 200 ASSI { 5162}	(( Begad " 2 300 acci ( 5172)	(( segid " (( segid " (	ASSI ( 5182) (( segld ")	2.300 ASSI ( 5192) (( segid ")	ASSI { 5202}	ASSI { 5212} (( seg1d "	ASSI { 5222} ( megid ";	(( megid ") 3 600 ASSI { 5272} (( segid ")	(( segid "B 3 300 ASSI ( 5282) (( segid "B

1 039	1 270	1 079	2 278	2 137	1 324	1.483	2 594	4 825	1 538	1 538	1.539	1 648	2 702	2 361	2 424	2 424	3 637	4.998	4 949	4 522	900	1	3 621
0 662 ppm2	0 662 ppm2	3 867 ppm2		0 418 ppm2	2.141 ppm2	2 583 ppm2	4.805 ppm2	1 549 ppm2	2.685 ppm2	1.994 ppm2	2 339 ppm2	4 706 ppm2	1 648 ppm2	1.648 ppm2	1 498 ppm2	1.649 ppm2	2 140 ppm2	3 631 ppm2	3 455 ppm2	4 600 ppm2	100		5.000 ppm2
0 24706E+03 ppml	0 60283E+03 ppm1	0 278108+03 ppm1	22916E+03	0 25721E+03 ppml	0 47853E+03 ppml	0 54334E+03 ppml	0.44904E+03 ppml	0 30560E+03 ppm1	0 20480E+03 ppml	0 13067E+03 ppm1	0 52968B+03 ppml	O 33531E+O3 ppm1	0 37274E+03 ppml	0 771658+03 ppm1	0 24631E+03 ppm1	0 21403E+03 ppml	0 355705+03 ppm1	0 30900E+03 ppm1	0 94220E+03 ppm1	0.97579B+03 ppm1	0 21087E±03		0 16015E+03 ppml
0 110005+01 volume	0 11000E+01 volume	0 11000E+01 volume	volume	0 11000E+01 volume	0 11060E+01 volume	0 11000E+01 volume	0.11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11060E+01 volume	0 11000E+01 volume	111000E+01 volume	11000E+01 volume	11000E+01 volume	11000E+01 volume	11000E+01 volume (	11000E401		) 11000E+01 volume (
and name HB2 )) peak 5922 weight	gid "BrD" and resid 78 and name HD2%) gid "BrD" and resid 78 and name HG )) 300 1 300 1 300 peak 5932 weight	esid 18 and name HA )) esid 18 and name HD1%) 1 700 peak 5962 weight		usid 18 and name HD24) seid 18 and name HB1 )) 1 700 peak 5992 weight	0004   881	resid 73 and name HBI )) resid 73 and name HD2%) I 300 peak 6012 weight	name HA )) name HB1 )) 5052 weight	esid 56 and name	cerd 56 and name	esid 56 and name 2 100 peak 6122 esid 56 and name	and name peak 6162 and name	esid 22 and name 1 600 peak 6212 esid 22 and name	esid 22 and name 1 400 peak 6232 esid 22 and name	celd 22 and name 1 200 peak 6242 esid 63 and name	72 13	((segid "BrD" and resid 63 and name HG )) 2 700 1 800 1 800 peak 6282 weight 6 81 { 6322}	22 B	25	1d "BYD" and resid 100 and name HB1 )) 1d "BYD" and resid 100 and name HA )) 00 1.100 1 100 peak 6392 weight (	10.4 "BFD" and resid 114 and name HA1 )) id "BFD" and resid 114 and name HA2 )) 00 1 100 1 100 peak 6412 weight (	432) id "BID" and resid 85 and name HA )) id "BID" and resid 85 and name HBI )) 00 1800 1800 resk 6432 weicht (	2 2	2 5
		)   	ASSI ( ( ( ( )		1000	( ( ( )	Y)	))) ASSI	ASSI ( 69 C)	) 185K	) ISSA	ASSI	ASSI	ASSI	ASSI	ASSI	ASSI	ASSI			TRSV ()	ASSI	AS
4		375	775	387	016	800	867	008				990	482	109	629	300	ç		4004	226	919	969	666
	228 ppm2 4	2 978 ppm2 4 775	3 131 ppm2 4 775	4 805 ppm2 2 387	4 805 ppm2 2 016	843 ppm2 4	2 535 ppm2 4 798	295 ppm2 4	387 ppm2 3	289 ppm2 3	ppm2 3	2 099 ppm2 3 590	4 509 ppm2 2 482	ppm2 2		478 ppm2 3	607 nnm2		1.254 ppm2 2.004	1 548 ppm2 2 922	1 424 ppm2 2 919	1 425 ppm2 4 696	0 662 ppm2 3 999
0 11482E+03 mm1 3 228 mm2	0 11482E+03 ppml 3 228 ppm2 4	0.56353E+03 ppml 2 978 ppm2	0 18150E+03 ppm1 3 131 ppm2 4	0 27608E+03 ppml 4 805 ppm2 2	0 121956+03 ppm1 4 805 ppm2 2	0 352778+03 ppml 2 843 ppm2 4	0 423448403 ppml	0 24171E+03 ppml 2 295 ppm2 4	0 83932E+03 ppm1 2 387 ppm2 3	0 96087E+03 ppml 2 289 ppm2 3	0.22035E+03 ppml 5 297 ppm2 3	0 23002E+03 ppml 2 099 ppm2 3	0 10358E+04 ppml 4 509 ppm2 2	0 18918£+03 ppml 4 509 ppm2 2	0 75991E+02 ppm1 4 509 ppm2	0 18381E+03 ppm1 5 478 ppm2 3	0 183698+03 ppm1 4 607 prm2		0 24752B+03 ppml 1.254 ppm2	0 96122E+03 ppml 1 548 ppm2 2	0 91489E+03 ppml 1 424 ppm2 2	0.28227E+03 ppml 1 425 ppm2 4	0.18293E+03 ppm1 0 662 ppm3 3
0.11000E+01 volume 0 11482E+03 mom1 3 228 mom2	U.LLUGGETUL VGLUME 0 11482E.03 ppml 3 228 ppm2 4	0.11000E+01 volume 0.56353E+03 ppml 2 978 ppm2	0 110006+01 volume 0 161506+03 ppml 3 131 ppm2 4	0 11000E+01 volume 0 27608E+03 ppml 4 805 ppm2 2	0.11000E+01 volume 0 12195E+03 ppml 4 805 ppm2 2	0 11000B+01 volume 0 35277E+03 ppml 2 843 ppm2 4	0 11000E+01 volume 0 423448+03 ppm. 2 955 ppm2 4	0 11000B+01 volume 0 24171E+03 ppml 2 285 ppm2 q	0 11000E+01 volume 0 83932E+03 ppm1 2 387 ppm2 3	0 11000E+01 volume 0 960878+03 ppml 2 289 ppm2 3	0 11000E+01 volume 0.22035E+03 ppml 5 297 ppm2 3	ppm1 2 099 ppm2 3	ppml 4 509 ppm2 2	ppm1 4 509 ppm2 2	75991E+02 ppm1 4 509 ppm2	volume 0 18381E+03 ppml 5 478 ppm2 3	ppm1 4 607 ppm2		ppml 1.254 ppm2	96122E+03 ppml 1 548 ppm2 2	91489E+03 ppml 1 424 ppm2 2	ppm1 1 425 ppm2 4	ppm1 0 662 ppm2 3
and name HG1 )) and name HG1 )) pack S422 secoret 0.11000E+01 volume 0 11482E+03 nam1 1 228 nam2	prac. 35-2 Wright U.11000&-01 Volume U 11482&-03 ppml 3 228 ppml 4 and name H4D ))	peak 5642 weight 0.11000E+01 volume 0.56353E+03 ppml 2 978 ppm2 and name una 1.5642 weight 1.	and name AA )	Feak 5672 weight 0 11000E+01 volume 0 27608E+03 pgml 4 805 ppm2 2 and name IA ) and name IA )	peak 5682 weight 0.11000E+01 volume 0 12195E+03 ppml 4 805 ppm2 2 and name HE2 ) and name HE2 )	Poak 5712 weight 0 11000E+01 volume 0 35277E+03 ppml 2 843 ppm2 4 and name HR1 ))	Press. 3762 Weight U 11000E+UI VOLUME U 42348E+U3 ppm. 2 935 ppm.2 4 and name HEI )) 2 935 ppm.2 4 and name HEI )) 2 935 ppm.2 4 and name HEI )) 2 935 ppm.2 4 and name HEI )	and name HD2 )) pask and name HD2 ) pask 5752 kH591 0 110008+01 volume 0 241718+03 ppm1 2 295 ppm2 4	and name HD1 )) And name HD2 )) pask 5762 weight 0 11000E+01 volume 0 83932E+03 ppml 2 387 ppm2 3	0 11000E+01 volume 0 960878+03 ppml 2 289 ppm2 3	volume 0.22035B+03 ppm1 5 297 ppm2 3	Volume 0 23002E+03 ppm1 2 099 ppm2 3	Volume 0 10358E+04 ppml 4 509 ppm2 2	0.11000E+01 volume 0 18918E+03 ppml 4 509 ppm2 2	volume 0 75991E+02 ppml 4 509 ppm2	and name HA. )) that name HB. )) peak 5850 veryit (0 11000E+01 volume 0 18381B+03 ppm.) 5 478 ppm. 3	and name HA )) and name HA )) back 862 weight 0 110005-01 volume 0 183695-03 nom1 4 607 nom2	and name HD24) and name HB2 ))	Peak 5872 weight 0 11000E+01 Volume 0 24752E+03 ppml 1.254 ppm2 and name HG18) and name HS18)	peak 5882 weight 0 11000E+01 volume 0 96122E+03 ppml 1 548 ppm2 2 and name HG2P, 0	2 and name HOZE)	and name HA )) peak 5902 weight 0.11000E.01 volume 0.28227E.03 ppml 1 425 ppm2 4	11000E+01 volume 0.18293E+03 ppm1 0 662 ppm2 3

2 037	4 000	666 E	4.106	4 671	1 320	0 409	2 563	6. 17.		7.18	2 657	1 478	1 681		1 879	4 637	4 582	950		2 206	1 715	1 661	1 261	1 141	4.407	1.897
3.718 ppm2	2 042 ppm2	1.059 ppm2	0.755 ppm2	4 542 ppm2	1 745 ppm2	1 747 ppm2	1 649 ppm2			4.952 ppm2	4 457 ppm2	4.457 ppm2	4 457 ppm2		4 361 ppm2	3 576 ppm2	4 902 ppm2	Cmoto 016 6		4 409 ppm2	4 408 ppm2	4 408 ppm2	4.408 ppm2	4 408 ppm2		
0 15198E+03 ppm1	0 98817E+02 ppm1	0 25254B+03 ppml	0 27152E+03 ppml	0 76028E+02 ppml	0 56051B+00 ppm1	0 14970E+03 ppm1	0 41514E+03 ppm1	0 122058+03 ppm]		14430E+03 ppm1	. 21435E+03 ppml	0 15009E+03 ppm1	0 10361E+03 ppm1		93787£+02 ppm1	0 98803E+02 ppm1	93160E+02 ppm1	14444 TO 1444		542115+02 ppm1	86608E+02 ppml	14800E+03 ppm1	0.86153E+02 ppm1	0.11960E+03 ppm1		63
0.11000E+01 volume (	0 11000E+01 volume (	0 11000E+01 volume	0 11000E+01 volume (	0 11000E+01 volume (	0 11000E+01 volume (	0 11000E+01 volume (	0 11000E+01 volume (	0 11000E+01 volume (		o suncerto corque	0 11000E+01 volume 0	0 11000E+01 volume C	0 11000E+01 volume C		11000E+01 volume 0	11000E+01 volume C	0 11000E+01 volume 0	0 11000E±01 volume		) 11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	110008+01 volume 0	0.11000E+01 volume 0	0.11000E+01 volume 0	volume
Degid "BPD" and resid 81 and name HB )) 2 800 2 000 2 000 peak 7052 weight (7 7702) Negid "BPD" and resid 81 and name HB ))	segad "BrD " and resad 78 and 3 100 2 400 2 400 peak [7122]	and name HA }} peak 7122 weight		(( begid "BrD" and resid 17 and name HA )) (( begid "BrD" and resid 20 and name HB1 )) 3 200 2 600 2 300 peak 7192 weight 0	1 / 42.5   1 / 42.5	[ 1212] aggid "BxD" and resid 17 and name HG2k) segid "BxD" and xesid 18 and name HD2k) 2 800 2 000 peak 7272 weight	(17352) segid "BrD" and resid 58 and name HG2*) segid "BrD" and resid 54 and name HR*) 2 400 1.400 1 400 peak 7352 weight	~ ă ă n	seld 32 and name	pand and	2.700 1 800 1 800 peak 7502 ( 7522) and resid 62 and name	segid "BrD " and resid 62 and name HG2 )) 2 800 2 000 2 000 peak 7522 weight [ 7532]	Segid "BrD" and resid 62 and name HA )) segid "BrD" and resid 62 and name HB2 )) 3 000 2.200 2.00 peak 7532 weight	rD " and resid 74 and name rD " and resid 59 and name	3 100 2 400 2 400 peak 7652 (762) segid "BKD" and resid 74 and name	3 100 2 400 2.400 peak 7662 { 7722}	<b>ຂໍ້</b> ສັກ -	rD " and resid 107 and name HA )) rD " and resid 110 and name HB )} 2.000 2.000 vask 2252 unight	esid 96 and name HA ))	3.400 2 900 2 100 peak 7762 weight 0 ASSI (7772) (( segid "BED" and reaid 107 and name HA ))	3 100 2 400 2 400 peak 7772 (772 peak) 7772 peak 7773 pe	(( Begad "BED " and regid ilo and name HGL2)) 2 900 2.100 2 100 peak 7782 weight 0	- ē ē m·	} "BrD" and resid 107 and name HA  } "BrD" and resid 110 and name HD1%  2 200 2.200 peak 7802 weight	{ 7872} segid "BrD" and resid 69 and name HA )) segid "BrD" and resid 91 and name HD2 )) 2 700 1.800 1.800 peak 7872 weight	ceid 100 and name RA )) ceid 103 and name HB2 )) 2 100 peak 7892 weight
099		}	206	635	687	323	320	4.127	4.135	295	100	į	774	750	781	,	27.9.7	337	1 323	774	673		324	775	170 124	715
4 804 ppm2 3			4.954 ppm2 4	4 951 ppm2 2	2 784 ppm2 4	5 000 ppm2 1	2 289 ppm2 1	5 547 ppm2 4	1 700 ppm2 4	1 697 ppm2 3	1 697 ppm2 3		4 658 ppm2 2	1 994 ppm2 1	4 409 ppm2 2		ppm2	1 700 ppm2 4	1 795 ppm2 1	1 798 ppm2 0	1 797 ppm2 0	Ŀ	1 646 ppm2 1	1 646 ppm2 0	1 751 ppm2 4	0 808 ppm2 1
0.19206E+03 ppm1			0 20617E+03 ppm1	0 23807E+03 ppm1	0 20893E+03 ppml	0 36090k+03 ppml	0 31261E+03 ppml	0 39497E+03 ppml	0 20471E+03 ppm1	0 27100E+03 ppm1	0 19809E+03 ppm1		0 165138+03 ppm1	0 31889E+03 ppml	0 19089E+03 ppml	10000 CO. U.S. C.	/3324E+	0 13650E+03 ppm1	0 21235E+03 ppm1	0 99662E+02 ppml	0 15213E+03 ppm1		0 77265E+03 ppml	0 16697E+03 ppml	0 17527E+03 ppm1	0 749746+03 ppml
0 11000E+01 volume	0 11000E+01 volume		U 110008+01 Volume	0 11000E+01 volume	0 11000E+01 volume	0.11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume		O IIOOUE+UI VOLUME	0 110008+01 volume	0 11000E+01 volume	50000 to 40000 tr 0		0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume		0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume 0 74974E+03
(1 wegtd 'BED' and remid 98 and hawe HA )) (2 wegtd 'BED' and remid 98 and hawe HB2 )) (2 700 1 800 1 800 peak 6502 weight)	ASSI ( 6512) (( megid "BrD" and reald 32 and name HA )) (( megid "BrD" and reald 32 and name HB2 )) 2 700 1 800 1 809 peak 6512 weight	esid 32 and name	send 11 and	2 600 1 700 1 700 peak 6552 [ 6562] segard 'spr' and read 53 and name segard 'spr' and read 53 and name	2.700 1 800 peak 6562 6572 and restd 11 and name	1	2.500 1 600 1 600 peak 6612 weight ( 6642) 9091d "BrD " and resid 43 and name HA ))	segid BrD and resid 44 and name 1400 peak 6642 6662 Begid BrD and resid 43 and name	segid "BYD " and resid 44 and name HD2 )) 2 700 1 800 1 800 peak 6662 weight (6672) 6673 1 800 peak 6662 weight	Begid "BrD " and resid 46 and name HB1 )) 2.600 1 700 1 700 peak 6672 weight { 6682}	segid "BrD " and resid 43 and name HBt ) segid "BrD " and resid 46 and name HB2 )) 2.700 1 800 1 800 peak 6682 weight	esid 76 and name HA ))	2 000 peak 5/32 Weight	# # # # # # # # # # # # # # # # # # #	(t segid "BID" and resid 79 and name HA )) ((segid "BID" and resid 79 and name HB1 )) 2 700 1 800 1 800 peak 6882 weight acct / cool	segid "BrD" and resid 79 and name segid "BrD" and resid 79 and name 2 200 1 200 neek 6892	() "BrD " and resid 43 and	EGGLU DID and IEDIQ 44 and name HUL ) / 2 000 2 100 peak 6912 weight (6942) 88914 8844 25 884 108 8844 885 884 885 884 885 884 885 885 8	segid "BrD " and resid 102 and hame HD1%) 2 700 1 800 1 800 peak 6942 weight { 6962}	cestd 25 and name HG14) cestd 78 and name HB14) 2 200 peak 6962 weight	segid "BrD " and resid 25 and name HG1%) segid "BrD " end resid 78 and name HD2%) 2 800 2 000 2 000 Deak 6972 weight	191d 25 and name HG2*)	2.200 1.200 1.200 peak 6992 weight [ 7002] eegid 'BrD " and reaid 25 and name HG2k)	6egid "BrD" and regad 78 and name HD14) 2.800 2.000 peak 7002 weight (7022) 8egid "BrD" and regid 38 and name HB ))	eegid "BTD" and reald 38 and name HA )) 2.800 2 000 2 000 peak 7022 weight (7012) 8egid "BTD" and reald 38 and name HG2%)	resid 43 and name HB%) 1 200 peak 7032 weight resid 81 and name HA ))

1 Volume 0 23409E+03 ppm.1 3 424 ppm.2 1 Volume 0 12451E+03 ppm.1 5 296 ppm.2 1 Volume 0 10451E+03 ppm.1 5 297 ppm.2 1 Volume 0 10451E+03 ppm.1 5 297 ppm.2 1 Volume 0 207762E+03 ppm.1 5 621 ppm.2 1 Volume 0 20632E+03 ppm.1 5 649 ppm.2 1 Volume 0 20632E+03 ppm.1 5 649 ppm.2 1 Volume 0 20632E+03 ppm.1 1 649 ppm.2 1 Volume 0 20632E+03 ppm.1 1 649 ppm.2 1 Volume 0 20156E+03 ppm.1 1 601 ppm.2 Volume 0 20156E+03 ppm.1 1 605 ppm.2 Volume 0 20156E+03 ppm.1 1 6057 ppm.2 Volume 0 10591E+03 ppm.1 1 057 ppm.2 Volume 0 10591E+03 ppm.1 1 057 ppm.2 Volume 0 1056E+03 ppm.1 1 057 ppm.2 1 0	A 799 A 799 A 799 A 799 A 799 A 799 A 790	volume 0 27759E+03 ppm1	2 682 ppm2
1 Volume 0 12451E+03 ppm.1 5 298 ppm.2 1 Volume 0 10485E+03 ppm.1 5 297 ppm.2 1 Volume 0 10120E+03 ppm.1 5 297 ppm.2 1 Volume 0 10120E+03 ppm.1 5 621 ppm.2 1 Volume 0 20150E+03 ppm.1 1 649 ppm.2 1 Volume 0 20155E+03 ppm.1 1 601 ppm.2 Volume 0 20155E+03 ppm.1 1 605 ppm.2 Volume 0 20150E+03 ppm.1 1 605 ppm.2 Volume 0 20150E+03 ppm.1 1 657 ppm.2 Volume 0 20150E+03 ppm.1 1 657 ppm.2 Volume 0 10291E+03 ppm.2 1 657 ppm.2 Volume 0 10291E+03 ppm.2 1 658	(	0 302825+03	286
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0 11000E+01 volume 0 13686E+03 ppm.1 1 057 ppm2	{ 8932} segid "BrD" and resid 102 and name HA )) segid "BrD" and resid 105 and name HB2 )) 2 700 1 800 peak 8932 weight 0.	0 21483E+03 ppm1	4 263 ppm2
	A52[ 4852] (seegid 'BrO' - and reesid 102 and name HB1)) ((seegid 'BrO' - and reesid 30 and name HB1)) ((seegid 'BrO' - and 'Essed 39 and name HB1)) 2 900 2 100 peak 8953 exigh: 0 11000E+01		
0 11000E+01 volume 0 12938E+03 ppm1 0 412 ppm2	~ 8 8 71 ~	volume 0 204478+03 ppml	3 303 ppm2
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1 320 4 295 4 295 1 671 1 671 1 671 1 876 1 876 1 876 1 876 4 520 1 876 1 876 4 520 4 4 520 1 876 

1 897	2 346	3 917	3 702	4 464	4 297	5 445	5.444	4 296	4 296		282	S 542		3 304	2 781	2 631	1 427	1 428	1 543	5 143	5.143	2 784	5.046	2 581
3 769 ppm2	3 769 ppm2	3 769 ppm2	3 769 ppm2	5 479 ppm2	2 286 ppm2	2.685 ppm2	2 340 ppm2	2 686 ppm2			18/		947	5 541 ppm2	4 904 ppm2	4 904 ppm2	4 756 ppm2	4 359 ppm2	4 360 ppm2	2.634 ppm2	2 501 ppm2	5 051 ppm2	2 586 ppm2	4 858 ppm2
0 13225E+03 ppm1	0.16112E+03 ppm1	0 15761E+03 ppm1	0.15186E+03 ppml	0 11074E+03 ppm1	0 16684E+03 ppml	0 21618E+03 ppm1	0 17054E+03 ppm1	0.21944E+00 ppm1	0 23373E+02 ppml		900	14616E+03	13342E+03	0 51922E+02 ppm1	0 10268E+03 ppm1	0 86087E+02 ppml	0 77364E+01 ppml	0.67595E+01 ppm1	0 71828E+02 ppml	0 15716E+03 ppml	0 13922£+03 ppm1	0 37492E+03 ppm1	0 495478+03 ppml	0.37351E+03 ppml
0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	emi (ox		volume	volume	0.110006+01 volume	0 11000E+01 volume	0 11000E+01 volume	0.11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0.11000E+01 volume	0.11000E+01 volume	0 11000E+01 volume
sid 103 and name HB2 }} 2 100 peak 9802 weight	name name 9812	and name and name eak 9822	1ame 1ame 3832	and name and name peak 9862	22 and name HB2 }} 19 and name HA }} 00 peak 9872 weight	36 and name HB1 )) 36 and name HA )) 00 peak 9912 weight	36 and name HB2 )) 36 and name HA )) 00 peak 9922 weight	36 and name HB1 )) 37 and name HD1 )) 00 peak 9932 weight	and name and name peak 9942	and name and name	and name	and name	and name HA ))	peak 10042 weight and name HA }) and name H82 })	30 peak 10062 weight 35 and name HA )) 35 and name HR ))	peak 10072	peak 10112 Weight and name HB2 ))	peak 10123 weight and name HB2 ))	peak 10132 and name	and name HA )) peak 10232 weight and name HB2 ))	and name peak 10242	and name HA 7) and name HB1 )) peak 10252 weight	and name HB2 }} and name HA }} peak 10292 weight	and name HA )) and name HB2 )) peak 10312 weight
6	6 segid "BrD " and resid 6 segid "BrD " and resid 2 800 2 000 2 0	( segid "BrD " and resid ( segid "BrD " and resid 2 800 2.000 2 0	egid "BrD " and resid egid "BrD " and resid 800 2 000 2.0 9862}	segid "BrD" and resid   segid "BrD" and resid   3 000   2 200   2.2   { 9872}	segid "BrD " and resid 22 segid "BrD " and resid 19 2 800 2 800 2 000 2 000 [ 9912 ]	segid "BrD " and reald 36 segid "BrD " and reald 36 2 700 1.800 1,800	segid "BrD " and resid 36 segid "BrD " and resid "BrD " and res	( 9934) ( oegid "BrD " and remid 36 ( segid "BrD " and remid 37 5 500 5 500 0.000	042} id "BrD " and resid 36 id "BrD " and resid 37 00 3,800 1 600	I ( 9952) ( segid "BrD " and resid 36 ( segid "BrD " and resid 37 2 600 1 700		[ 9982] segid "BrD" and reald 54	(10042) 2 100 2 100 (10042) BrD and reald 54 seegld "BrD and reald 54	2.900 " and	3 000 2 200 2 200 [10072] segid "BrD" and reaid 35 segid "BrD" and reaid 35	3 100 2 400 2 400 2 400 410112 Begid "BrD " and rebid 70 60014 For " an	4 700 rD and		3 200 2 600 2 30 (10232) segid "BrD " and resid 7	segid "BiD " and resid 7 2 800 2 .000   1.0242   eegid "BrD " and resid 7	d "BrD" and reald 7 0 2.100 2.100 52)	begga BrD and resid 42 segid BrD and resid 42 2 400 1.400 1,400 1 {10292}	segid "BrD " and resid 42 megid "BrD " and resid 42 2 300 1 300 1 300	} "BrD " and reald "BrD " and reald 1 400 1 4
({ segi 2 90 ASSI { 98	(( seg. (( seg. 2 80 ASSI ( 98	( segi ( segi 2 80 ASSI ( 98	(( segi ( segi 2 80 ASSI ( 98	3 00 ( \$691 3 00 ( \$891	(( segs (( segs 2 80		( aeg. (	ASSI ( 991) ( 992) ( 993) ( 993) ( 993)	ASSI { 99	ASSI { 99 ({ segi (( segi	ASSI (99 (1 segt) (1 segt)	ASSI { 9982 } 1384 **	ASSI (100-	3 400 ASSI [10062] ({ segid "E (( segid "E	3 000 ASSI {100 (( megle	ASSI (10112) (( segid "B		4 800 ASSI [10132] (( segld "E	ASSI (102)	(( segic ASSI (1024 (( segic	(( segld "E 2 900 ASSI {10252}	(( segid ( ) segid 2 400 ASSI (1029)		ASSI (10312) (( megid ") ( megid ") 2 400
	3,689	3 603	70 7	977 1	3.074	3 884	0 410	3 883	0 834	2 820	2 500	3 271	4.690	2 302	4 810	1.807	4 810	1 651	1 976	2 989	c 55 5		2 930	4 77 S
	303 ppm2	ppm2	r zwdd ror	zwdd ost	4 360 ppmz 3.074		1 203 ppm2 0 410	1 205 ppm2 3 883			1 006 ppm2 2 500	1 004 ppm2 3 271	1 008 ppm2 4.690	4 265 ppm2 2 302	2 533 ppm2 4 810	2 444 ppm2 1.807	1 547 ppm2 4 810	4 411 ppm2 1 651			·			2 733 ppm2 4 775
	ppm1 1.303 ppm2	ppml 1 303 ppm2 3	1319484U3 ppm1 1.3U3 ppm2 3	rudd ost z	360 ppm2	488 ppm2 3	203 ppm2 0	205 ppm2 3	397 ppm2 0	006 ppm? 2	ppm2 2	004 ppm2 3	2wdd	11803E+03 ppml 4 265 ppm2 2	ppml 2 533 ppm2 4	48997E+03 ppml 2 444 ppm2	26958E+03 ppml 1 547 ppm2 4	11168E+03 ppml 4 411 ppm2 1	20383E+03 ppml 4 411 ppm2 1	30771E+03 ppm1 4 784 ppm2 2	473668403 trum) 4 683 trum? 9		38829E+03 ppml 4 653 ppm2 2	14086E+03 ppml 2 733 ppm2 4
	0 169%6E+03 ppml 1.303 ppm2	Volume 0.277448+03 ppm1 1 303 ppm2 3	11000E-01 volume 0 13134E+03 ppm1 1.103 ppm2 3	Pudd of 7 Tudd coastococo	11815E+03 ppml 4 360 ppm2	16218E+03 ppml 2 488 ppm2 3	Ppml 1 203 ppm2 0	13713E+03 ppml 1 205 ppm2 3	ppml 1 397 ppm2 0	22449E+03 ppml 1 006 ppm/2 2	95431B+02 ppml 1 006 ppm2 2	16689E+01 ppml 1 004 ppm2 3	33859E+03 ppml 1 008 ppm2	.03 ppml 4 265 ppm2 2	2 533 ppm2 4	ppm1 2 444 ppm2	volume 0 26958E+03 ppml 1 547 ppm2 4	ppml 4 411 ppm2 1	ppm1 4 411 ppm2 1	ppa1 4 784 ppa2 2	03 rives 4 653 rives 2		Ppml 4 653 ppm2 2	<b>ppm1</b> 2 733 ppm2 4
and resid 102 and name HD1%) and resid 105 and name HB2 ))	8992 weight 0 11000E+01 volume 0 16956E+03 ppml 1.303 ppm2 name HD11)	700 I./OU peak 9002 weight 0 11000E-01 Volume 0.27744E-03 ppml 1 303 ppml 3 and resid 102 and name HD14) and resid 20 and name HB2 )) 000 2 700 peak 9012 and name HB2 )	and the many series of the ser	end 21 and name HB.)	2 200 peak: 9082 weight 0 110008-01 Volume 0 11815E+03 ppml 4 360 ppm2 evestal 11 and name HB ))	2 000 peak 9092 weight 0 11000E+01 volume 0 16218E+03 ppml 2 488 ppm <sup>2</sup> 3 sees14 21 and name HOIV)	2 100 peak 9182 weight 0 11000E+01 volume 0 13133E+03 pgml 1 203 pgm2 0 easid 21 and name HDL\$1	2 100 peak 9222 weight 0 110006+01 volume 0 137136+03 ppml 1 105 ppm2 3 secured 50 men RF011)	on the state of th	esaid 53 and name HRI )  1 800 peak 9239 waight 0 11000E+01 volume 0 22449E+03 ppml 1 006 ppm/ 2  800 peak 9239 waight 0 11000E+01 volume 0 22449E+03 ppml 1 006 ppm/ 2	asid 53 and name HG2 )	and name NB2 )) self name NB2 )) and also self to .11000E+01 volume 0 16689E+03 ppml 1 004 ppm2 3 and name NG231	agid 51 and name MA )) 1.000 peak 3122 weight 0 ll000E-01 volume 0 ll065tol ppml 1 006 ppm2 acid l01, and mme MA ))	and resid 104 and name HD1 )) 200 2 200 peak 9332 weight 0 110008.01 volume 0 118038.03 ppml 4 265 ppm2 2	and refeat 01 mid name HB )) And recald 32 and name HB )) 600 1.600 peak 9342 waight 0.110008+01 volume 0 31366403 ppml 2 533 ppm2 4	and restal to and name HG11)) and restal tol and name HG12)) 100 1 300 peak 9372 weight 0 11000E+01 volume 0 46997E+03 ppm1 2 444 ppm2	======================================	esud 110 and name HA )) 2 200 peak 9432 weight 0 11000E+01 volume 0 11168E+03 ppm1 4 411 ppm2 1	esid 110 and name IA )  Esid 13 and name IBA )  Esid 13 and name IBBA )  1 800 peak 9442 weight 0 11000E+01 volume 0 20383E+03 ppml 4 411 ppm2 1	TD " and read 24 and name Hh ))  YD " and read 24 and name HB )  L 600 Teak 9712 weight 0 110008-01 volume 0 307718-03 ppml 4 784 ppm2 2 1 600 teak 9712 weight 0 1	ED " and resid 23 and name HA )) FD " and resid 23 and name HB )) 100 Pask 975-8 watch 0 110008-01 volume 0 47746F4.01 nmm1 4 651 nmm2 2	resid 23 and name HA ))	Peak 9772 veight 0 11000E+01 volume 0 388298+03 ppml 4 653 ppm2 2 and name HB1 )	10113 and name HA })  real 102 and name HA })

### CONTOUNT CONTO

2 339	1.901	2 434	2 931	2 857	4 788	2 475	2 351	2 237	4 33.7 543.	2 471	3 300	и и г	4 4 6	6			4 210	4 011	4 011	0 993	1 492	1 655
4 655 ppm2	4 655 ppm2	4 953 ppm2	4 901 ppm2	4 901 ppm2	4 608 ppm2	4 801 ppm2	4 803 ppm2	803	4 312 ppm2		4.457 ppm2	4 457 ppm2					2 490 ppmz	2 488 ppm2	2.784 ppm2	2.784 ppm2	2.290 ppm2	2 290 ppm2
52255E+03 ppml	74419E+02 ppml	30562E+03 ppml	0 14886E+03 ppm1	0 14118E+03 ppm1	0 34604K+03 ppml	13575E+03 ppm1	11676E+03 ppml		0 5547/E+03 ppm1		15710E+03 ppm1	11776E+03 prm)	07	5	1			12572E+03 ppml	94017E+02 ppm1	0 13261E+02 ppml	10292E+03 ppm1	56479E+02 ppml 52899E+02 ppml
0.11000E+01 volume 0	.11000E+01 volume 0	0.11000E+01 volume 0	0 11000E+01 volume 0	0 11000E+01 volume 0	11000E+01 volume 0	0 11000E+01 volume 0	11000E+01 volume 0		o 11000E+01 volume o	volume	11000E+01 volume 0	11000E+01 volume 0	volume	o dunie			onno	0.11000E+01 volume 0	11000E+01 volume 0	0 11000E+01 volume 0	0.11000E+01 volume 0	11000E+01 volume 0
HG1 )) Weight	HA )) HG2%) Weight 0. HA ))		HB1 )) weight HA ))	weight Weight HB1 ))	weight 0	Weight HA	peak 10942 weight 0 1)  8 and name HA )) 1 and name HA ))	re1ght (02 ))	HD1 )) HA )) Weight	HA )) HB1 ))	and name HD1 )) and name HB2 )) peak 11112 weight 0 11	۰	HD1 )) HA )) Weight 0	HD2 )) HG24)	Ha1 )	HG2 ))	We 1gnt HG2 )) HD2 ))	Weight HG1 ))	weight 0 401 ))	Weight HB1 ))	(1024)	and name HD11) peak 11292 weight 0 11 and name HB2 )) and name HB2 )) peak 11302 weight 0 11
resid 80	esid 83 2.300 esid 9	Begid "BrD" and resid 9 and 2 500 1 600 peak (10802)	2 000 esid 20	2.100 2.100	1 600 esid 10	Aegid "BrD" and reald 111 and hame 2 900 2 100 peak 10912 [10942] [10942] and reald 108 and name aegid "BrD" and reald 111 and name aegid "BrD" aegid "BrD" and name aegid "BrD" aegid	2 200 2 200 estd 10	2.300 esid 44	esid 44	esid 11 esid 14 2.200	(11112) uegid "BrD" and resid 11 ar seqid "BrD" and resid 10 ar 2 800 2 000 peah	esid 11 2.200	[11152] segid "BrD" and resid 37 an segid "BrD" and resid 36 ar 3 400 2.900 2 100 peak	esid 53	eard 53	resid 53	(11232) segid "BYD " and reeld 53 an segid "BYD " and reeld 53 an	2 100 ceard 53	2 400 esid 53	1 200 resid 19	resid 19	resid 63 2 200 resid 19 resid 63
(( aegid 2 300 ASSI {10762	( segid segid 3 200 ASSI {10792 ( seqid	(   megad 2 500 ASSI (10802 (   megad	( megad 2 800 ASSI (10812 ( megad	( segid ASSI (10822 ( segid	ASSI (10932) (( segatd "B	( segid 2 900 ASSI (10942 ( segid	ASSI (1967) 1 0002 ASSI (1967) (( Begid () Begid	3 200 ASSI (11002 (( segad (( segad	ASSI (11032 (( segid (( segid 2 300	ASSI {11092 (( segid (( segid ( ) segid 3 000	ASSI (11112 (( Begid (( Begid 2 800	ASSI (11122 (( segid (( segid 3 000	ASSI (11152 (( segid (( segid 3 400	ASSI (11182 (( segid ( segid ) 400	ASSI (11212 (( segid ( segid 2 soo	ASSI {11222 (( segid (( segid ( ) segid	ASSI (11232 (( Regid (( Segid	2 900 ASSI {11242 (( segid (( secid	3 100 ASSI {11252 (( seegid ( seegid	A.300 A.300 ASSI (11272) (( Begad "B)	ASSI (11292) ( Regid "B	( segid "E s
	2.780	4 873	3.021	1 145	2 729	2 731	4 798	4.798	4 638	4.587	2 931	2.847	2 662	2 662	2 181	4 998	2 702	2 608	4 951	4.951	4.671	4 672
	4 854 ppm2		2 585 ppm2	2 782 ppm2	4 803 ppm2	4 831 ppm2	2 570 ppm2	2 694 ppm2	2 684 ppm2	2 684 ppm2	4 509 ppm2	4 509 ppm2	3 523 ppm2	3.227 ppm2	5 000 ppm2	2 141 ppm2	2mdd 000 5	5 000 ppm2	2 536 ppm2	2 583 ppm2	2 536 ppm2	2 584 ppm2
	0 30668E+03 ppml 0.28367E+03 ppml	80939E+03	47273E+03 ppml	0 42729E+02 ppm1	0 46141E+03 ppm1	0 \$6402E+03 ppml	48724E+03 ppml	12901E+04 ppm1	0.44320E+03 ppml	38447E+03 ppml	0 36144E+03 ppml	0 39358E+03 ppm1	0 23961E+03 ppml	0.23485E+03 ppml	0 25166E+03 ppm1	0 30460E+03 ppml	48749£+03 ppm1	87656E+03 ppm1	24800E+03 ppm1	0 24031E+03 ppm1	0 11905E+03 ppm1	13820E+03 ppml
	0.11000E+01 volume 0	volume	0 11000E+01 volume 0	0 11000E+01 volume 0	0 11000E+01 volume 0	0 11000E+01 volume 0	0 11888E+01 volume 0	0 11000E+01 volume 0	0 11000E+01 volume 0	0 11000E+01 volume 0	0 11000E+01 volume 0	0 11000E+01 volume 0	0 11000E+01 volume 0	0 11000E+01 volume 0	0 11000E+01 volume 0	0 11000E+01 volume 0	0 11000E+01 volume 0 48749E+03	0 11000E+01 volume 0	0 11000E+01 volume 0	0.11800E+01 volume 0	0 1100DE+01 volume 0	0 11000E+01 volume 0 13820E+03 ppm]
HA 11	# 22 #	HB2 )) HA )) Weight	HB2 )) HG1 )) weight	HG2 )) HD14) weight	HA )) HB1 )) weight	HA )) HB1 )) weight	HB2 )) KA )) weight	HB1 )) HA )) veight	HA )) weight HB1 ))	Weight )	2 weight	e HB2 )) 2 weight e HG1 ))	2 weight e HG2 )}	ne HEV ) 62 weight ne HA ))	ne HG1 )) 12 weight ne HG2 ))	HA ))	HB1 ))	KA )) KB2 )) Weight	ume HB2 )) ume HA )) i72 weight	(R) ))	482 )) 4A )) veight	HB1 )) HA )) Weight HA ))
and name	ak 10322 and name and name	and name and name peak 10342	and name and name peak 10352	and name and name peak 10392	and name and name peak 10402	and name and name peak 10422	and name and name peak 10452	and name and name eak 10462	9 and name peak 10482 3 and name	2 and name peak 10492 and name	peak 1053	and name peak 10542 and name	peak 10552	and name peak 10562 and name	and name peak 10632 and name	ă.	and name peak 10652	and name and name peak 10662	and name and name peak 10672	and name and name peak 10682	and na and na peak 106	and name and name peak 10702 and name
NED" and resid 87 and name NED" and resid 67 and name	ak 10322 and name and name	and name and name peak 10342	esid 87 and name	esid 50 and name and 50 and name 2 000 peak 10392	( segid "BrD " and reold 48 and name F ( segid "BrD " and reold 48 and name F 2 400 1 400 peak 10402 v	usid 94 and name said 94 and name 1 300 peak 10422	rebid 92 and name rebid 92 and name 1 300 peak 10452	and name and name eak 10462	9 9	segaid "BED" and resid 112 and name HA )) 2.400 1 400 1.400 peak 10492 weight [10522] segaid "BED" and resid 75 and name HA ))	1 600	segid BKD	1 700 1 700 1814 75	1.700 1.700 181d 66	1 700 1 700	1 600	1 300	segid "BED" and resid 66 and na yegid "BED" and resid 66 and na 2.100 1100 peak 106 {10672}	esid 80 esid 77 1 700	esid 80 1.700	egid "BFD" and resid 80 and name segid "BFD" and resid 80 and name so 3 and 2 200 2.200 peak 10692 (10702)	120/02, segid "BED" and resid 80 and n segid "BED" and zeoxd 80 and n 2 2 900 2 100 peak 10 (10792)

# COSIOSIL OCCOO

0.858 ppm2	-0 324 ppm2	Carrier Carr		2 189 ppm2	2 780 ppm2	2 189 ppm2	1 051 ppm2	1 055 ppm2	4 904 ppm2	3 137 ppm2	2 487 ppmz		4.903 ppm2	4 903 ppm2	4 903 ppm2	2000	9	2 826 ppm2	2.679 ppm2	2 679 ppm2			1 304 ppm2	1 305 ppm2	1.402 ppm2	1.402 ppm2	1 402 ppm2
0 13883E+03 ppm1	0.12386E+03 ppml	0 115348+03 prom1		0 97683E+02 ppm1	0 132438+03 ppml	0 13995E+03 ppm1	0 14146E+03 ppm1	0 94205B+02 ppm1	0 16299E+02 pml	0 52760E+03 ppm1	0 19334E+03 ppm1		0 59031E+02 ppml	0 90578E+62 ppm1	0 13057E+03 ppm1	1 300786±03		0 10826E+03 ppm1	0 42931E+03 ppm1	0.81117E+03 ppm1	128805.04			0 40319E+0Z ppml	0 38368E+03 ppm1	0 51224E+03 ppm1	0 51311E+03 ppm1
0.11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume		0 11000E+01 volume	0 11000E+01 volume	0 110008+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume		0 11000E+01 volume	0 11000E+01 volume	0.11000E+01 volume	0 11000E+01 volume		0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0.110000±00001		ol volume	0.11000E+01 volume	0.11000E+01 volume	11000E+01 volume	0 110008+01 volume
and name HB2 )) peak 12032 weight	and name HG2 )) and name HB2 )) peak 12042 weight	and name HD1 )) and name HG1 )) beak 12062 weight	and name	peak 12072 and name	and name peak 12082 and name	and name peak 12092	and name HB1 }} and name HG2 }} peak 12102 weight	and name HB1 )) and name HG1 )) peak 12132 weight	and name HA )) and name HB1 )) peak 12182 weight	and name HG2 )) and name HE% ) peak 12222 weight	and name HB2 )) and name HE4 ) peak 12242 weight	and name HA ))	peak 12252 weight and name HA ))	and name peak 12262	and name HA )) and name HB2 )) peak 12272 weight	and name HB1 )) and name HA )) beak 12312 weight	and name HB1 ))	name HA )) 2322 weight	and name HB2 )) and name HA )) peak 12332 weight	and name HB2 )) and name HA )) seak 12342 weight	(024) (G ))	HD2*)	eak 12402 and name and name	eak 12422 and name	name HG )) 12432 weight	and name HD1%) and name HB2 ]) peak 12442 weight (	and name HD1%) and name HB1 )) peak 12452 weight
segid "BrD " and resid 33 2 900 2 100 2.100 {12042}	mend 33	125052} sectid "BxD" and resid 33 sectid "BxD" and resid 33 3 000 2 200	resid 33	3 100 2 400 2 400 {12082} segid "BrD " and resid 33	esid 33 2 100 eard 33	esid 33	segid "BrD " and resid 33 segid "BrD " and resid 33 2 900 2 100 2 100 {12132}	esid 33 esid 33 2 400	esid 35 esid 36 1 400	seld 59 seld 59 1 300	esid 59 esid 59 1 800	881d 59	2 200 esid 59	2.400	eaid 59 2 100	esid 61 esid 61 1 600	19 pres	2 200	said 61 said 58 1 400	1d 61 1d 61 1 100	981d 10	201	1. 400 10 10 14 31	2 000 esid 14	1 400	esid 14 1 300	12372, 8egid "BrD " and resid 14 8egid "BrD " and resid 14 2 300 1 300 1 300 1
ASSI		1254	ASSI (( )	ASSI	ASSI	ASSI	(	a )) ( ( a )	a ))	ASSI (	6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		) 185 <b>K</b>	( s 3 3 ASSI (	( B ( )		ASSI (	) ISSV	9 9 00 00 00 00 00 00 00 00 00 00 00 00	( T T T T T T T T T T T T T T T T T T T	ASSI {	ASSI ( 84 ( ) 8 (	ASSI (	ASSI (	ASSI (	( 60 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	0 0 0
	2 438	4 830	4 800	4 807	0 766		4 667	4 667	2 291	4 646	2 323	1 480	4 911		2 7 7	2 978	2 788		5 642	3 668	559	4 559	5 378	-0 319	Š	2	1 083
	4 805 ppm2	2 685 ppm2	2 420 ppm2	2 340 ppm2	2 340 ppm2		636		4 972 ppm2		3 177 ppm2	2 629 ppm2	3 177 ppm2		a model	5 347 ppm2	5.347 ppm2	;	4 559 ppm2	4 410 ppm2	2 730 ppm2	2 978 ppm2	2 725 ppm2	4 361 ppm2	1 36 A	Į,	4 360 ppm2
	0 40873E+03 ppml	0.64841E+03 ppm1	0 36224E+02 ppml	0 38167E+03 ppm1	0 12261E+03 ppm1	;	£03		0.40526E+03 ppml	õ	0 19040E+03 ppml	0 69523E+02 ppml	0 81736E+02 ppm1	1100305.03		0.18443E+03 ppm1	0 32384E+02 ppm1		1912ZE+03 ppm1	16587E+03 ppml	11825E+02 ppml	0 50256E+02 ppm1	0 17033E+03 ppm1	0 10731E+03 ppm1	1 2004 10 Tab	3	0 18669R+03 ppm1
	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0.11000E+01 volume	0 11000E+01 volume		votume	volume	volume	11000E+01 volume	0 11000E+01 volume (	0 11000E+01 volume o	0 11000E+01 volume (	, emulou 104300011 0		0 11000E+01 volume (	0 11000E+01 volume 0		o amnto, totame o	0 11000E+01 volume 0	0 11000E+01 volume 0	0.11000E+01 volume 0	0 11000E+01 volume 0	0 11000E+01 volume 0	0 11000E.01 velime 0		0 11000E+01 volume 0
and name HA ))	ak 11392 weight and name HB1 )) and name HA ))	peak 11422 and name	and name HA )) peak 11442 weight	and name HA )) peak 11472 weight	and name HG2 )) and name HG2 )) peak 11482 weight	and name HB1 ))	and name HG1 ))	peak 11622 weight and name HA )) and name HB2 ))	peak 11692 weight and name HD1 )) and name HA ))	peak 11702 weight and name HD1 )) and name HG1 ))	peak 11713 weight and name HD2 }) and name HG2 })	peak 11732 weight	and name HA )) peak 11742 weight	and name HO1 )) and name HD2 ))	and name HA ))	peak 11802 weight and name HA ))	end name HG1 )) peak 11812 weight	and name HD1 )) and name HA ))	and name HD2 ))	peak 11882 weight	peak 11912 weight and name HBI ))	and name HD1 }) peak 11922 weight and name HR2 })	and name HA )) peak 11942 weight	and name HG2 )) peak 11952 weight	and name RA )) and name HB2 )) beak 11962 weight	and name HA ))	weight HGi ))
(11392) segid "BrD " and resid 97 segid "BrD " and resid 97	2 400 1 400 1 400 {11422} segid "BrD * and resid 97 segid "BrD " and resid 94	2 200 1 200 1 200 {11442} Begid "BrD " and resid 97	3 600 3 200 1 900 (11472)	2514 BLD and resid so 2400 1400 1400 (1400 (11482)	segid "BrD " and resid 86 segid "BrD " and resid 86 2 900 2 100 2,100	(11612) segid "BrD " and resid 64 segid "BrD " and resid 61	segid "BrD " and resid 64	(11692) segid "BrD " and resid 6 segid "BrD " and resid 6	{11702} segid "BrD " and resid 72 segid "BrD " and resid 72	2 600 1 700 1.700 [11712] megid "BrD " and resid 62 megid "BrD " and resid 62	2 700 1 800 1 800 {11732} segid "Brb " and resid 62 segid "Brb " and resid 62	3 200 2 600 2 300 (11742)	segid "BrD " and resid 59 3 100 2 400 2 400 [11782]	segid "BrD " and resid 91 segid "BrD " and resid 91 3 000 2 200	{11802} segid "BrD " and resid 91 segid "BrD " and resid 91	2.700 1 800 1 800 [11812] segid "BrD " and resid 91	segid "BrD " and resid 91 3 700 3 400 1 800 [11852]	segid "BrD " and resid 91 segid "BrD " and resid 89	{11882} neglid "BrD " and resid 91 neglid "BrD " and resid 89	2 800 2 000 2 000 {11912} segid "BrD " and resid 91	3 700 3 400 1.800 (11922) segid "BrD " and reald 91	8egid "BrD " and resid 91 3 400 2 900 2 100 {11942} eeqid "BrD " and resid 91	segid "BrD " and resid 91 2 800 2 000 2 000 {11952}	megic off and resid 33 megic "BrD" and resid 33 000 2 200 2 200 (11962)	resid 33	freend 33	1.800 resid 33
ASSI (17 (( seg (( seg	ASSI (11) (( seg (( seg	2 2 ASSI (11 (( Beg	( meg 3 6 ASSI (11	(( seg	9 5 9 6 7 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	ASSI (11 (1869 (689)	ASSI (11) (11) (11) (11) (11) (11) (11) (11	ASSI (11 (11) (12) (13) (13)	ASSI (117 (( seg (( seg	ASSI (11) (( seg (( seg	2 70 ASSI (111 (1 seg.	3 20 ASSI (11'	(( seg 3 1.	( seg.) ( seg.)	ASSI (11) (12) (13) (13)	2.70 ASSI (118 (( segi	(( seg 3 7 ASSI (111	( seg ) )	ASSI (11 (( Beg.	2 8 ASSI (11: (( 8eg)	3 71 ASSI (11)	(( seg. 3 4( ASSI {115 (( seg.	(( seg. 2 80 ASSI (119	( meg: 3 oc 3 oc 3 oc	( Beg1 ( Beg1 ( Beg1	ASSI (119 (( Beg1 (( Beg1	2 70 ASSI {120 (( segi

2 657 1.670 4 4 673 2 115 9 4 4 53 2 020 2 020 2 020 2 155

.0 169 .0 1894 .0 119 .0 11

2.468

2 3 2 2	2 128	1 084	4 720	4 441	0 409	4 625	s 000	2 644	1 662	4 913	1.271	984		4 624	3 182	2 312	1 712		2 634	2 905	1 544	4 810	808	2 469	4.208
108 ppm2	58 ppm2	441 ppm2	95 ppm2	842 ppm2	.487 ppm2	805 ppm2	05 ppm2	651 ppm2	826 ppm2	18 ppm2	848 ppm2	360 ppm2		974 ppm2	649 ppm2	952 ppm2	zwdd si		13 ppm2	2 bbus	6 ppm2	5 ppm2	7 ppm2		2.781 ppm2
*	1.058	N	1.795	1	64	4	4.805	rt	64	1.848	1	4	•	74	1	4	2.785		4 903	2 437	4.756	1 596	1 797	<b>♣</b>	2.78
0 75137E+02 ppm1	0 50793E+03 ppml	0 18693E+02 ppml	0 288968+03 ppml	0 26245E+03 ppml	0 29780E+02 ppml	0 19090E+03 ppm1	0 14250B+03 ppm1	0 17578E+03 ppm1	0 345928+02 ppm1	0 83827E+02 ppml	0 55813E+02 ppml	0 69544E+02 ppm1		0 56698+02 ppml	0 19084E+03 ppml	0 29321E+02 ppm1	0 26752E+02 ppml		0 25810E+03 ppml	0 59564E+03 ppml	30896E+02 ppml	0 17496E+03 ppm1	55145B+02 ppml	65568E+02 ppm1	0 16043E+03 ppm1
0 11000E+01 volume	0.11000E+01 volume	11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 Volume	11000E+01 volume	11000E+01 volume	11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	11000E+01 volume		0.11000E+01 volume	11000E+01 volume	11000E+01 volume	0 11000E+01 volume		0.11000E+01 volume	11000E+01 volume (	11000E+01 volume 0	11000E+01 volume (	0.11000E+01 volume 0	0 11000E+01 volume 0	0 11506E+61 volume 0
and name HG )) peak 13262 weight	and name HD1%) and name HB1 )) peak 13362 weight	and name and name peak 13372	and name HG1%) and name HA )) peak 13382 weight	and name HB2 )) and name HA )) sak 13402 weight	and name HB )) and name HD24) peak 13422 weight	and name HA )) and name HB2 )) peak 13432 weight 0	and name HA )) and name HB1 )) peak 13442 weight 0	and name HG2%) and name HD2 }) peak 13482 weight 0	and name HB1 ) and name HG24) peak 13492 weight o	and name HE% ) and name HA }) peak 13512 weight	and name HE* ) and name HD2*) peak 13522 weight	and name HA )) and name HB2 )} peak 13542 weight o	and name HB2 ))	peak 13552 weight and name HG2V)	and dame NOT )) peak 13652 Weight O and name HA ))	and name HBt ) peak 13662 weight 0	and name HB1 )) and name HB\$ ) peak 13702 weight	and name HA ))	peak 13722 weight and name HG )) and name HB1 ))	peak 13742 weight 0 and name HBI ))	and name HGI%) peak 13902 weight 0 and name HG2%)	٥	and name HG12)) and name HA )) eak 13932 weight	and name HA )) and name HG11)) eak 13942 weight	and name HB1 )) and name HD1 )) peak 14002 weight 0
resid 56 2.300	esid 18 esid 18 1 300	resid 14 resid 18 1.500	Begid "BrD " and resid 25 segid "BrD " and resid 22 2.600 1.700 1.700 [13402]	ë ë	"BrD " and resid 21 "BrD " and resid 18 3 400 1 800	segid "BrD" and resid 57 segid "BrD" and resid 60 food 1,800 1 800	asid 57 2 100	rD " and resid 58 rD " and resid 62 2 000 2 000	1 900 1 900	resid 59 resid 59	arD " and resid 56 2 900 2 100	rD " and resid 21 rD " and resid 24 2 600 2 300	3rD " and resid 74 3rD " and resid 71	2 200 resid 58	2 000 2 000 7 6 8 1 d 3 2	3 400 1 800	arD " and resid 42 arD " and resid 43 3 600 1 700	esid 62	r /ou r /ou  rD " and resid 63  rD " and resid 63	1 300 esid 70	real	2 000	irD " and resid 10: irD " and resid 98 2 900 2 100	orD * and restricted	NYD " and resid 53 NYD " and resid 53 2 000 2 000
(( Begid "I 3.200 ASSI (13362)	( segid (( segid 2,300 ASSI (13372	( segr. ( segr. 4 00 ASSI (133	{ segid (( segid 2.600 ASSI (1340)	(( segret) (( segret) 2,60	( segid ( segid 3 700	ASSI [15452] (( segid ") (( segid ") ( segid ")	2 900 2	( segid "B ( segid "B ( 2 800	( segid " ( segid " ) 3 600 ASSI (13512)	( segid ") (( segid ") 3 100 ASSI (13522)	( segid "B ( segid "B ( segid "B		ASSI (13552) (( segid "f (( segid "f	3 300 ASSI (13652) ( segid "E	2 800 2 800 ASSI (13662) (( segid "E	( segid ") 3 700 ASSI (13702)	008 E pr6es ) pr6es )	ASSI {13722} (( segid "E (( segid "E	ASSI {13742} ({ segid "B (( segid "B	2 300 ASSI (13902) (( segid "	{ segid "s 3 700 ASSI {13912} { seqid "i	(( segid "E 2 800 ASSI {13932}	(( segid () segid 3 400		ASSI {14002} ({ segid "E (( segid "E 2 800
	4, 0 20 20 20 20 20 20 20 20 20 20 20 20 20	480	2 707	3 230	1 964	3 307	3 605	4 517	1 715	3 406	3 607	4 436	1 321	1 083	4 445		3 143	3 278	3 532	4 462	5 543		1 823	3.149	2 323
		1 402 ppm2	1 847 ppm2	1 848 ppm2	2.535 ppm2	2.535 ppm2	1 004 ppm2	1 054 ppm2	1 059 ppm2	4 412 ppm2	4 412 ppm2	2 979 ppm2	4 458 ppm2	1 745 ppm2	4 013 ppm2		1 546 ppm2	3 718 ppm2	5 003 ppm2	3 340 ppm2	2 535 ppm2		4.704 ppm2	0 756 ppm2	3 127 ppm2
			o 212116+03 ppm1	88634E+02 ppm1	21213E+03 ppm1	35414E+03 ppm1	14057E+03 ppm1	0 66311E+02 ppm1	0 17186E+03 ppml	0 50976E+02 ppm1	0 50633E+02 ppm1	0 255038+03 ppml	42963E+02 ppm1	0 90746E+02 ppm1	0 76248E+02 ppml		0 13096B+03 ppml	59764E+02 ppm1	52965E+02 ppm1	0 32755E+02 ppm1	0 48303E+03 ppm1		0.37838E+02 ppm1	0 16892E+03 ppm1	7944E+02 ppml
1			eun Tox	0 11000E+01 volume 0	0 11000£+01 volume D	0.11000E+01 volume 0	0 11000E+01 volume 0	0 11000E+01 volume 0	11000E+01 volume	volume	0 11000E+01 volume 0	0 11000E+01 volume 0	11000E+01 volume 0	0 11000E+01 volume 0	0 11000E+01 volume 0		0 11000E+01 volume 0 :	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume	0 11000E+01 volume 0 4		0.11000E+01 volume 0.3	0 11000E+01 Volume 0 1	0 11000E+01 volume 0.87944E+02
and name HD1%) and name HA })	peak 14462 Weight and name HD1%) and name HD1%)	and name HE* ) and name HB! )	and name HE% )	<pre>peak 12622 weight and name HE% } and name H82 })</pre>	peak 12662 weight and name HE* ) and name HG! )	peak 12682 weight and name HG2%) and name HB1 ))	Weight 482 ))	peak 12802 weight and name HGI*} and name HB* }	peak 12902 weight and name HA )} and name HB2 ))	weight (18 ))	Weight HB ))	and name HA ))	each mame holf) peak 12942 weight 0 and mame HGP%)		and name HB1 )) and name HA )) peak 12982 weight 0	and name MD1%) and name HB2 ))	weight HA ))	weight 0	HB1 )) weight o	0	and name HEt ) and name HA }) peak 13182 weight 0	and name HA ))	weight HG24)	weight HB2 ))	weight HB1 ))
and resid 14	and resid 14 and resid 18	estd 59	reald 59	2 400 send 54	2 700 1.800 1 800 g [ {12682} ] 891 d mand resid 54 [ 8egid "BrD " and resid 54	1 600 181d 50	2 100 esid 78	2 700 2 200 ind in and resid 38 ind resid 38	2 000 esid 25	2 100 resid 28	2 100 said 25	1.700 esid 99	2 000	2 400	esid 98 esid 95 2 300	I (13062) segid "BrD " and resid 56 ( segid "BrD " and resid 34	2 100 sid 81	2 200 resid 85	2 100	resid 85 resid 83	resid 54 resid 54	esid 50	1 900 esid 81	2 000 cend 34	2 400
ASSI (12462) ( segid "BrD ' (( segid "BrD ' 2 600 1	ASSI [12472] ( segid " ( segid " )	ASSI (12602) ( segad "BrD " (( segad "BrD "	ASSI (12622) ( segid "I (( segid "I	3 100 ASSI (12662) ( segid "E ( segid "E	2 700 ASSI {12682} ( Beg1d "E (( Beg1d "E	2 500 ASSI {12772} { segad "E { segad "E	2 900 ASSI (12802) (( segid "E	3.300 ASSI {12902} ( segid "E ( segid "E	2 800 ASSI {12912} (( segid "B (( segid "B	3 400 ASSI {12922} (( segid "B (( segid "B	3 400 ASSI (12932) (( segid "B (( segid "B	2 600 ASSI (12942) (( segid "B	3 500 3 500 ASSI (12952) ( seemed "B	( segid "B 3.100 ASSI (12982)	(( segid "B (( segid "B 3 200	ASSI (13062) ( segad "B (( segad "B	2 900 ASSI (13152) (( segid "B	3 300 3 300 ASSI (13162) (( segid "B	(( segid "B 3 400 ASSI (13172)	(( segid "B; (( segid "B; 3 700 ASSI (13182)		ASSI (13212) (( segid "BrD " and x (( segid "BrD " and x	3 600 3 200 ASSI [13222] { segid "BrD " and (' seqid "BrD " and	2 800 2 000 ASSI {13252} ({ segid "BrD " and r { secid "BrD " and r	3 100 ASSI {13262} {( segid "B)

7 271	7 952	866 9	7 533	7 535	990 6		7 069	7 063	7 259	0 408	7 901	7 607	4 4 4		7 7	4 932	7.788		181	1 554	1 917	7 705	5 542	တ က ဏ		4 354	
3 816 ppm2	3 962 ppm2	3 576 ppm2	2 985 ppm2	3 571 ppm2	3 573 ppm2		3 672 ppm2	4 755 ppm2	4 755 ppm2	4 607 ppm2	4 410 ppm2	4 410 ppm2	5.592 mma		3 721 ppmz	3 668 ppm2	3 720 ppm2	ŝ	508	4 804 ppm2	4.804 ppm2	3 125 ppm2	0 760 ppm2	0 755 ppm2		0 859 ppm2 2 190 ppm2	
11000E+01 volume 0 74345E+02 ppm1	0.11000E+01 volume 0 27498E+03 ppm1	0.11000E+01 Volume 0 14689E+03 ppm1	11000E+01 volume 0 37941E+62 ppml	11000E+01 volume 0 16094E+03 ppm1	11000E+01 volume 0 11655E+03 ppm1		0.110008+01 Volume O 15106E+03 ppml	0 11000E+01 volume 0 68425R+02 ppml	0 11000E+01 volume 0 82972E+03 ppml	11000E+01 volume 0 81712E+01 ppm1	0.11000E+01 volume 0 21131E+03 ppml	0 11000E+01 volume 0 16900E+03 ppm1	11000E+01 Volume 0 97221E+00 ppm1		aun Too	11000E+01 volume 0.43854E+03 ppm1	11000E+01 volume 0 67242E+03 ppm1	200	co-aco o sinto	0.11000E+01 volume  0 16843E+03 ppml	0 11000E+01 volume 0 94615E+02 ppm1	11000E+01 volume 0 12277E+03 ppm1	11000E+01 volume 0.31158E+03 ppm1	11000E+01 volume 0.23078E+03 ppm1		11000E+01 volume 0 93743E+02 ppml	
segid "BrD " and resid 47 and name HEt ) 3 200 2 600 2 300 peak 15332 Weight 0 {15352}	Begid BED and regad 32 and mame HB3 )) 8-691d "BED" and regad 32 and name HB3 )) 2 600 1 700 1 700 peak 15352 weight [1543]	begin "bin" and resku /4 and mame Hbl )) egod "brD" and reskd 74 and name HDr ) 2.900 2.100 2.100 peak 15432 weight (15482)	((*egad "BFD" and real 44 and hame HR2)) ( egad "BFD" and real 44 and hame HR4) ASSI (15492)	segid "BrD" and resid 74 and name HB1 )) segid "BrD" and resid 74 and name HEt ) 2 800 2 000 2 000 peak 15492 weight 0	<pre>(119802) seg1d "BFD" and resid 82 and name HB2 )) seg1d "BFD" and resid 82 and name HE1 ) 3 000 2 200 2.200 peak 15602 weacht 0</pre>	rD " and resid 82 and name HB1 ))	2 000 peak 11612 weight esid 82 and name HA )) esid 82 and name HE*)	3 200	2 100 1 100 1.100 peak 15742 weight (15792) segard "BED" and resid 15 and name HA ))	acgrd of and resid to did name host;  (1652)  segid "BxD" and resid 107 and name HA })	segid "GrD " and resid 107 and name HE# ) 2.700 1 800 1 800 peak 16522 weight {16532}	eegid "BrD " and resid 96 and name HA )) segid "BrD " and resid 96 and name HE* ) 2 800 2 000 peak 16532 weight	[18692] segid "BrD" and resid 52 and hame HA )) segid "BrD" and resid 53 and hame HG2 )) 5 500 5 500 0 000 peak 16692 weaqhr o	rD and resid 105 and name HB1 ))	cend 105 and name HB2 ))	2910 1 400 1 400 peak 17162 weight 0 {17202}	eegid "BrD" and resid 105 and name HB2 )) eegid "BrD" and resid 105 and name HDt ) eegid "BrD" 1200 1.200 pask 17202 weight 0	rD " and resid 105 and name HA )) 1 200 and resid 105 and name HDt)	"BrD " and resid 116 and name HA )) "BrD " and resid 116 and name HG12))	<pre>2 000 peak 17292 Weight sid 116 and name HA )) sid 116 and name HG11)</pre>	3 100 2.400 2 400 peak 17302 weight (17412) segid "BrD" and resid 34 and name HBZ ))	8egid "BrD " and resid 34 and hame HDk ) 2 900 2 100 2 100 peak 17412 weight 0 17525 8egid 81 and name HG2k)	resid 34 and name HA )) 1 600 peak 17652 weight 0	segid "BYD " and resid 81 and name HG2t) segid "BYD " and resid 55 and name HA )) 2 600 1 700 1 700 peak 17662 waight 0	and name HG1 ))	100 2 400 2 400 pask 17722 weight 0 [(7812) 2 400 pask 17722 weight 0 engist "DPD" and room 33 and mame HD2 )) 0 000 2 200 2 200 pask 17812 weight) 0	
		0 0 0	3 697	4 683	2 434	1.750	4 460	4 942	4 984	1 633		4 425	2 274	2 587	1 710	;	340	7.421	6 689	6 689	5.575	5.575		7.315	5 762	7 271	
	4 00 00 00 00 00 00 00 00 00 00 00 00 00	}	4 409 ppm2	2 680 ppm2	4 830 ppm2	4 901 ppm2	2 580 ppm2	2 145 ppm2	1 303 ppm2	1 305 ppm2		1 303 ppm2	0 911 ppm2	5 447 ppm2	2 586 ppm2	:	4 904 ppmz	4 163 ppm2	4 164 ppm2	3 078 ppm2	3 372 ppm2	3.570 ppm2	:	2 639 ppm2	4.705 ppm2	3 375 ppm2	
	o total print		67314E+02 ppm1	0.38186E+03 ppm1	68636E+OZ ppml	37471E+02 ppml	0 215518+03 ppml	0.58722B+02 ppm1	0 51768E+02 ppml	0.50747E+03 ppml		0 22785E+03 ppml	98423E+02 ppml	0.48374E+00 ppm1	0 74053E+02 ppm1		0 2/8045+02 ppmi	0 19889E+03 ppm1	0.36218E+02 ppml	0 28675E+02 ppm1	0 98530E+02 ppm1	0 74212E+02 ppm1	:	17734E+02 ppm1	16402E+02 ppml	0 56146E+02 ppml	
0 13000010	0 11000E+01 volume		0 11000E+01 volume 0	0 11000E+01 volume	0.11000E+01 volume 0	0 11000E+01 volume 0	0 11000E+01 volume 0	0 llbdoE+01 volume 0.	0 11000E+01 volume 0	0 11000E+01 volume 0.		0 11000E+01 volume 0	0 11000E+01 volume 0	0 11000E+01 volume 0.	0.11000E+01 volume 0		voz ume	0.11000E+01 volume 0	0 11000E+01 volume 0.	0 11000E+01 volume 0	0 11000E+01 volume 0	0 11000E+01 volume 0		0 11000E+01 volume 0 1	0 11000E+01 volume 0 1	0 110008+01 volume 0 5	
and name HB1 )) and name HD2 ))	and name HB2 )) peak 14072 weight	and name HA ))	peak 14082 and name and name	peak 14092	peak 14182 and name	and name peak 14252	and name peak 14552	and name and name peak 14572	resid 102 and name HD2%) resid 31 and name HA  ) 2.100 peak 14592 weight	and 102 and name HD2%) and 25 and name HG2%) 1 300 peak 14612 weight	and name	peak 14622 and name	peak 14662 and name	and name peak 14772 and name	and name peak 14812	and name HA )) and name HB2 ))	and name	peak 14942 and name	and name HEV ) peak 14962 weight	and name peak 14992	and name HB2 )) and name HD2 )) peak 15062 weight	and name HB1 )) and name HD2 )) peak 15072 weight	and name HB1 ))	peak 15122 weight and name HA ))	and name peak 15292	and name HB2 )) and name HEt ) peak 15322 weight and name HB1 ))	
esid 53 esid 53	(14072) segld "BrD " and reald 75 segld "BrD " and reald 82 3 000 2 200 2 200	"BrD " and regad 75 "BrD " and regad 82	3.300 2 700 2 200 ASSI [44092] (( segid "BrD" and resid 79 (( segid "BrD" and resid 76	2 400 1 400 1 400 [14182] segld "BrD" and resid 94	3.200 2 600 2 300 {14252} segid "BrD" and resid 11.	segid "BrD" and resid I. 3.600 3 200 1 900 {14552} arold "BrD" and resid 11	segid "BrD " and resid 11 2 700 1.800 1.806 [14572]	segid "BrD" and res 2 300 2 700 {14592}	{ segid "BYD" and resid 102 ({ segid "BYD" and resid 31 3 400 2 900 2:100 p ASSI {14612}	segid "BrD " and res		2 700 1.800	3 100 2 400 2 400 [14772] segid "BrD " and resid 36	segid "BrD " and resid 37 5 500 5 500 0 000 {14812} seqid "BrD " and resid 42	segid "BrD " and resid 43 3.200 2 600 2.300 [14822]	(( segid "BrD " and resid 36 (( segid "BrD " and resid 36 )	BrD and resid 46	2 700 1 800 1 800 (14962) aegid "BrD " and resid 46	3 600 3.200 1.900 (14992)	segid "BrD " and resid 46 3 700 3 400 1 800 {15062}	Begid "BrD" and resid 28 Begid "BrD" and resid 28 3 100 2 400 2 400 {15072}	segid "BrD " and resid 28 segid "BrD " and resid 28 3 200 2 600 2 300	2} "BrD " and resid 67 "BrD " and resid 67	4.100 4.100 1.400 p. ASSI (15292) (1.86914 "BLD " and resid 47	eegid "BrD " and resid 46 4 100	(( segid "BrD " and resid 47 ( segid "BrD " and resid 47 3.400 2 900 2 100 p ASSI [15332] (( segid "BrD " and resid 47	

866 9	7 416	7 609	6 689	5 753	2 157	1 718	3 882	4 210	7 260	4 696	6 0		689	7 267	7 267		7 958	7 958	5 587	4 452	!	4 452	4 804	5 544		4 476
4 508 ppm2	1 700 ppm2	1.697 ppm2	1 697 ppm2	1 697 ppm2	4 263 ppm2	4.411 ppm2	1 747 ppm2	4 696 ppm2	4 696 ppm2	4 015 ppm2	4 214 bpm2		2 784 ppm2	2 784 ppm2	2 486 ppm2		2 486 ppm2	2 784 ppm2	3 784 ppm2	2 831 ppm2	i	2 980 ppm2	4.656 ppm2	4 702 ppm2		3 177 ppm2
e 0.28302E+03 ppm1	1e 0 13802E+03 ppm1	ne 0 55356E+01 ppm1	ie 0 52712E+02 ppm1	e 0 28846E+03 ppm1	e 0 19930 <b>E</b> +03 ppm1	0.38344E+03	e 0 91939E+02 ppml	e 0 66608E+02 ppm1	e 0 22677E+02 ppml	e 0 75265E+02 ppm1	e 0 50650E+02 ppm1		e U 35265E+02 ppml	a 0 291998+03 ppm1	s 0 27122E+03 ppm1		≥ 0.38647E+03 ppm1	s 0 18213E+03 ppml	0 58337E-01 ppm1	0 31153E+03 ppml		0 363078+03 ppml	0 11465E+05 ppm1	: 0 51113E+02 ppm1		
0.11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 110005+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11600E+01 volume		o transport o	0 11000E+01 volume	0 11000E+01 volume		0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume		o transstar volume	0 11000E+01 volume	0 11000E+01 volume	emilon totanott o	
and name peak 19032	and name HBt ) and name HEt ) peak 19112 weight	and name HB% ) and name HD% ) peak 19132 weight	and name HBt ) and name HEt ) peak 19142 weight	and name HBt ) and name HDt ) peak 19162 weight	102 and name HA )) 1914 102 and name HG )) 1 800 peak 19852 weight	110 and name HA )) 110 and name HG11) 1.400 peak 20082 weight	and name HG2%) and name HA )} peak 20232 weight	and name HA )) and name HD1 )) peak 20342 weight	and name HA )} and name HE* ) peak 20372 weight	and name HD2 )) and name HA )) peak 20422 weight	and name HD1 )) and name HG2%) peak 20432 weight	and name and name	and name HG1 ))	peak 20472 weight	and name HG2 )) and name HB% ) peak 20482 weight	and name HG2 ))	and name HOl ))	peak 20502 weight	and name HA }) peak 20522 weight	and name HG2 )} and name HA )) peak 20602 weight	and name HG1 )) and name HA ))	and name HA ))	and name HB )) peak 20702 weight	and name HB )) and name HA )) peak 20772 weight	and name HG2%) and name HA ))	HD1 )) HA ))
"BrD " and resid 74 1.700 1.700	esid 43 esid 88 2 100	esid 43 esid 88 0 600	eegid "BrD " and resid 43 eegid "BrD " and resid 46 3 400 2.900 2.100	send 43	3rD " and re 3rD " and re 1 800		3rD " and resid 17 3rd " and resid 18 2 400 2 400	irD " and resid 53 irD " and resid 53 2 700 2.200	<pre>irD " and resid 53 irD " and resid 47 3 800     1 600</pre>	segid "BrD " and resid 53 segid "BrD " and resid 53 200 2 600 2 300	esid 53 esid 50 2 100	eard 46	eerd 53	1 600	rD " and resid 53 rD " and resid 47 1 700 1 700	rD " and resid 53	ee1d 53	2 000	0 000	esid 61 esid 58 1 600	resid 61	enid 80	1400 0500 0800 [20712]	esid 58 esid 54 2 100	segid "BrD" and resid 58 segid "BrD" and resid 54 2 800 2.000 r	esid 62 esid 62 2 400
( segid ' 2.600 ASSI (19112)	( segid ' ( segid ' 2 900 ASSI (19132)	( segid ( segid * 4.900 ASSI (19142)	( segid "[ 3 400	( aegid ( aegid ( )	( segid ( segid ( ) )	ASS1 [20062] (( segid "E (( segid "E 2 400			( segad "E	( segad " ( segad " )	( segid " ( segid " )	ASSI (20462) (( segid " ( segid ") 3 600	ASSI {20472} (( Begid "E	2 500 ASSI (20482)	(( segid "B ( segid "B 2 600 ASSI (20492)	( segid "	ASSI (20502) (( segid "B:	2 800 ASSI {20522}	(( segid "E 5 500 ASSI {20602}	(( segid "E (( segid "E	ASSI {20612} (( segid "E (( segid "E 2.500	ASSI (20702)	1 400 ASSI (20772)	(( Begid "B (( Begid "B 3 400	( segld "B ( segld "B	ASSI (20882) (( segld "B (( segld "B
																									٠.٣	
	-0 162	4.354	4.353	4.981	1 797	7.97 T	2 190	2 792	1 262	1 140	1 262	5 582	6 688		7.367	7 962	3 448	4 901		6 999	7.001	4 518	9 6	÷	1.262	1 140
Ş	82	2 190 ppm2	2 785 ppm2	2 190 ppm2	2 763 ppm2	2 191 ppm2	1 056 ppm2	1 056 ppm2	3 522 ppm2	3 226 ppm2	3 226 ppm2	.2 784 ppm2	2 783 ppm2		zwdd car z	2 777 ppm2	2 781 ppm2	2 782 ppm2		3 227 ppm2	3 524 ppm2	2 635 ppm2	5 634 ppm2		2.634 ppm2	2 634 ppm2
		0 24295E+02 ppm1	0.26770E+02 ppm1	0 62722E+02 ppml	0.61193E-03 ppm1	0.56139E-03 ppml	0 21009E+02 ppm1	0 67464E+02 ppml	0 20766E+02 ppm1	0 48309E+02 ppml	0 17226E+02 ppml	0 54556B+00 ppml	0 27274E+03 ppm1	1 34975E403 rount	Two cases of the case of the cases of the cases of the cases of the cases of the case of the cases of the case of the cas	0 93621B+02 ppm1	0 S0180E+03 ppm1	0 212248+03 ppm1		0 49200E+02 ppm1	0.922865+02 ppml	0 12672E+03 ppm1	0 27479R+02 ppm1		0 21856E+03 ppm1	0 24635E+03 ppm1
Same Con to Adopte to	aunto, to-tacont	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	volume	volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0.11000E+01 volume		0 11000E+01 volume	0 11000E+01 volume 0 50180E+03	0 11000E+01 volume		0.11000E+01 volume (	0 11000B+01 volume (	0.11000E+01 volume (	0 11000E+01 volume		0 11000E+01 volume (	0 116065+01 volume (
and name HD1 )) and name HB2 ))	and name	peak 17832 weight and name HD1 )) and name HA ))	peak 17842 weight and name HD2 }) and name HA })	peak 17862 weight and name HD1 )) and name HH2 ))	peak 17872 weight and name HD2 )) and name HHZ ))	peak 17882 weight and name HB1 )) and name HD2 ))	peak 17912 weight and name HB1 )) and name HD1 ))	k 17942 nd name nd name	c 18062 1d name 1d name	2 100 peak 18082 weight ( 1 resid 75 and name HG2 )) 1 resid 110 and name HG2k)	e1ght B1 ))	peak 18162 weight and name HB1 ))	and name HE% ) peak 18172 weight	and name HB1 )) and name HE% ) peak 18182 weight	and name HA ))	peak 18192 weight and name HB% )	HG1 )} weight	and name HE't ) and name HA )) peak 18292 weight 0	and name HG2 ))	ak 18452 weight and name HG1 )) and name HD% )	ak 18462 weight	and name HA )) ak 18512 weight	81d 75 and name HE*) 81d 18 and name HD2*) 1 700 peak 18752 weight 0	HE ) HG2 ()	and name HEt)	and name HDI*) sak 18802 weight and name HA ))
(17822) segid "BrD" and resid 33 segid "BrD" and resid 33 3 000 2 200 2 200 3	enid 33	[17842] segid "BrD " and resid 33 segid "BrD " and resid 33	s 600 1 700 rd resid 33 rd and resid 32	2 700 2 200 rD " and resid 33 rD " and resid 32	5 500 5.500 0 000 (17882) segid "BrD " and reald 33 segid "BrD " and reald 32	0 00 0 esid 33	1 600 estd 33 estd 33	3 300 2 700 2.200 J [18062] [ segid "BrD " and resid 75 ecgld "BrD " and resid 75	4 000	3 400	4 100 1 400 grb rep. rb and resid 53	0 000 981d 53	1.700	esid 53 esid 47 1 600	esid 53 esid 47	2 400 eald 35	esid 35 1 300	send 35 send 35 1 800	rD " and resid 75	2 you 2 look D and resid 75	2 400 reald 75	:D " and resid 75 2 100 2 100 p	ÜÜ	2 5	1 800 p	1 700 presid 75
ASSI (17822) (( segid "B (( segid "B 3 000	ASSI (17832) (( segid "B (( segid "B	ASSI [17842] (( segid "B (( segid "B	3 800 ASSI {17662} (( segid "B (( segid "B	3.300 ASSI (17872) (( segid "B: (( segid "B:	5 500 ASSI {17882} ({ segid "Bi {{ segid "Bi	\$ 500 3 ASSI (17912) (( segid "Bi	3 900 ASSI (17942) (( segid "Di	3 300 ASSI {18062} ({ segid "Bi	4 000 ASSI {18082} (( segid "Bi ( wegid "Bi	3 400 ASSI {18092} (( uegid "BrE ( aegid "BrE	4 100 4 100 ASSI (18162) (( segad "BrD " and r	ASSI (18172) (( segid "BrD " and re	( segid "Br 2 600 ASSI (18182)	(( segid "BrD " and r ( segid "BrD " and r 2 500 1 600	ASSI (18192) (( 8egid "Br ( 8egid "Br	3 100 2.400 ASSI {18222} ( segid "BrD " and r	(( segid "Br 2 300 ASSI (18292)	( segid "Br (( segid "Br 2 700	( segid "BrD " and re ( segid "BrD " and re	ASSI {18462} (( segid "Br) ( segid "Br)	3 100 2 400 ASSI (18512) ( segid "BrD " and	( segid "BrD " and r 2 900 2 100 ASSI {18752}	( segid Bri ( segid Bri 3.800		ASSI {18802} ( segid "BrD " and	ASSI (19012) (( segid "BrD " and

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		155	155	155	155					1.007 ppm2		007		900	809			646		537	610		635	635 ppm2
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	and name HB2 )) eak 21912 weight	and name HB1 )) eak 21922 weight and name HD1*)	and name HG1 )) eak 21932 weight and name HD1%)	and name HB2 }) aak 21942 weight and name HD1*)	and name HB1 )) sak 21962 weight and name HD1%)	and name HA )) sak 21992 weight	and name nulty and name HA )} sak 22002 weight	and name HB )) and name HEt ) eak 22052 weight	and name HG2*) and name HA )) sak 22092 weight	and name HG2%) and name HD% ) aak 22102 weight	and name HG2%) and name HB% ) sak 22152 weight	and name HG2%) and name HE% ) ak 22162 Weight	and name HG2%) and name HA )) ak 22172 weight	and name HG2%) and name HG2%) ak 22192 weight	and name HG12}) and name HA )) ak 22262 Weight	and name HG2V) and name HA )) ak 22342 weight	and name HG1%) and name HE% ) ak 22512 weight	and name HGI*) and name HD* ) ak 22522 weight	and name HG1 }) and name HA )) ak 22652 weight	and name HB1 )) and name HA )) ak 22792 weight	and name HE1 )) and name HA )) ak 22872 weight	and name HD2 )) and name HA )) ak 22942 weight	and name HG1 )) and name HA )) ak 23162 weight	HG1 )) HA )) weight
Column   C	resid 87 1.700	resid 87 1 400 resid 50	reald 87 1 800 resid 50	esid 84 1.800 esid 50	resid 84 1 700 resid 50	1 800	esid 84	resid 50 resid 46 2.200	eald 50 eald 52 2 000	esid 46	said 50 said 47 1 200	esid 50 1 600	csid 50 csid 84 2 100	esid 50 esid 49 1 800	esid So esid So 2 200	resid 69 resid 70 2 000	resid 49 resid 88 1.300	esid 49 resid 88	resid 7 resid 7 2 200	resid 10, resid 10: 1 300	resid 6 resid 6 1 100	resid 44 resid 44 2 400	esid 8 esid 8 1 700	esid 11 esid 10 1 400
Column   C	egid "BrD " a .600 1.70 21922}	egid "BrD" a 400 140 21932} egid "BrD" a	egid "BrD " a .700 3 40 21942} egid "BrD " a	egid "BrD " a 700 180 21962} egid "BrD " a	#gid "BrD " a 600 170 21992} egid "BrD " a	egid "BrD " a 700 22002}	egid "BrD " a 300 1 30 22052}	sgid "BrD " a sgid "BrD " a 000 2 20 22092)	<pre>991d "BrD " a 991d "BrD " a 500 3 10 22102}</pre>	egid "BrD " a egid "BrD " a 700 3 40	91d BrD as 91d BrD as 300 4 30	91d "BrD " an 91d "BrD " a 500 1 60	91d "BrD " al 91d "BrD " al 900 2 10	91d "BrD " au 91d "BrD " au 700 3 40	g1d "BrD " an	2342} gid "BrD " an gid "BrD " an 500 3 104	(2512) (gld "BrD " al (gld "BrD " al 300 1300	2522} gid "BrD " a: gid "BrD " a: 500 l 600	2652} gld "BrD " at gld "BrD " at 000 2 200	2792) gld "BrD " ar gid "BrD " ar 300 1300	2872} 91d "BrD " ar 91d "BrD " ar 100 1.100	2942} gid "BrD " ar gid "BrD " ar 100 _ 2 400	3162} gid "BrD " ar gid "BrD " ar 600 1 700	3172} gid "BrD " ar gid "BrD " ar 100 4 100
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	resid 62 and name HD2 )) **eaid 62 and name HA. ) 2 200 peak 20892 weight 0 110008+01 volume 0	eald 62 and name HDI )) Eald 67 and name HEK ) 1 100 peak 20902 weight 0 110008+01 volume 0 11575E+02	reald G2 and name HDI )) teald G7 and name HDV ) 1 800 peak 20912 weight 0 11000E+01 volume 0 10541E+02	8014 62 and hame HD2 )) 2 100 peak 20922 weight 0 11000E+01 volume 0 54284E+02	suid 62 and name HD2 )) 191d 67 and name HEt ) 2 400 peak 20932 weight 0 11000E+01 volume 0.91289E+02	Held 62 and name HBl )) 1814 62 and name HDl )} 2 300 peak 20952 weight 0 11000E+01 volume 0 71708E+02	satd 62 and name (HB 2 ) 2 and name (HB 2 ) 2 200 peak 20952 **araht* 0 1100008.01 volume 0 100708.03	and the state of t	1 800 peak 20970 weight 0 110008-01 volume 0 20830E-03 ppm. 2 1 800 peak 20970 and name HG2])	2 400 peak 21013 wasght 0 110008*01 volume 0 872158*02 ppml 1 1	2 100 peak 21022 weight 0 11000E+01 volume 0 13858E+03 ppml 2 804d 81 and name HA )	0 700 peak 21162 weight 0 11000E.01 volume 0 66244E.01 ppml 4 459 ebid 30 and name HB ))	2 100 paak 21512 weight 0 11000E+01 volume 0.541656+02 ppmi 1 747 and mane HB )	1 000 peak 21522 weight 0 11000E+01 volume 0 90841E+01 ppml 1 751 eseal 38 and mane HB )	1 000 peak 21512 waight 0 110008+01 volume 0 97356E+01 ppml 1 747 and name HO14)	2 200 peak 21602 weight 0.11000E+01 volume 0 56657E+02 ppml 1 056	1 400 peak 21522 weight 0 11000E+D1 volume 0 44267E+D1 ppml 1 056	= 10 4 and hame HA ) 1 1000B+01 Volume o 15411E+03 ppml 1 056 geat 0 ppml and H028).	231 79 and name RA 1) 1 1000E+01 volume o 24983E+03 ppml o 760 estd 50 and name HD18)	Ann rests 40 and home HAIN!  Ann rests 40 and home HAIN!  And coast 50 and name HOIN!  And coast 50 and name HOIN!	real of 9 add fidth over 1 (1000E-01 volume 0 37404E-03 ppml 1 (100 peak) and name HR (100 peak) and name HR (100 peak) and name HR (100 peak)	reasons and indee into )  2.00 peak 21852 weight 0 11000E+01 volume 0 48521E+02 ppml  restd 49 and name HB ())	TCB11 05 and hame hkt ) 2.00 peak 21862 weight 0 110008+01 volume 0 550498+02 ppml 2 resid 49 and hame HB )) Yeard 46 and name HA ))	1 400 1 800 peak 21872 weight 0 11000E+01 volume 0 31537E-02 and resid 50 and name HD14)

1 090	0 925	: 15 C4 S6 M	3 525	4 508	4 507		75.8 7	370 A	3 074	4 753	538	980	3 524	0 408	0.410	4 826	7 514	946	2 520	2 598	4 74		4.947
1 498 ppm2	1.498 ppm2		2 290 ppm2		2 193 ppm2			3 076 ppm2		3 917 ppm2	1 797 ppm2	1 599 ppm2	1.155 ppm2	1 254 ppm2	1 153 ppm2	1 401 ppm2	3 768 ppm2		1 893 ppm2		2 419 com2	3	2.598 ppm2
.19359E+03 ppm1	20841E+01 ppm1	200666+02	655578+02	12763E+03	50116E+03	20.30	20,490917		.62910E+03	879298+02 ppml	55437E+03 ppm1	11167E+03 ppm1	51048E+02 ppm1	.11733E+02 ppm1	11735E+03 ppm1	31414B+03 ppm1	97052E+02 ppm1	20226E+03 ppm1		ppm1		1	23440E+02 ppml 14855E+03 ppml
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8 and name HDIt) 0 peak 24662 weight	3 and name HD2*) 8 and name HB2 }) 0 peak 24672 weight	and name and name peak 24742	and name and name peak 24752	9 and name HG1 )) 6 and name HA )) 0 peak 24762 weight	9 and name HD1 )) 6 and name HA )) 0 peak 24812 weight	3 and name HG1 ]) 0 and name HA ))	and name and name	and name HG2 }) and name HA  ) peak 24912 weight	and name and name ak 24932	s and name HB1 )) 2 and name HA )) 3 peak 25432 weight	and name HG12)) and name HB )) ak 25552 weight	and name HG2%) and name HA )) peak 25612 weight	and name HD1%) and name HG1 )) ak 26032 weight	resid 110 and name HG2%) resid 18 and name HD2%) 1.100 peak 26172 weight	resid 110 and name HD1%) resid 18 and name HD2%) 2 200 peak 26182 weight	116 and name HD1%) 116 116 and name HA )) 1 600 peak 26302 weight	and name HA )) and name HDt ) ak 26562 weight	resid 103 and name HB1 )) resid 100 and name HA )) 1 800 peak 26592 weight	and name HB2 )) and name HG2 )) tak 26642 weight	182 )) 101 )) reight	send 103 and name HG2 }) 2.000 peak 26662 weight	and name and name	peak 26672 and name and name peak 26722
. 800	segid "BrD " and resid 63 segid "BrD " and resid 18 5 500 5 500 0 000	{24742} segid "BrD " and resid 19 segid "BrD " and resid 19 4 000 4.000 1.500	2} "BrD " and resid 19 "BrD " and resid 19 2 700 2 200	2) "BrD " and resid 19 "BrD " and reoid 16 2 100 2 100	{24812} segid "BrD " and resid 19 segid "BrD " and resid 16 2 300 1 300 1 300	(24872) segid "BrD " and resid 23 segid "BrD " and resid 20 3 100 2 400	"BrD " and resid 24 "BrD " and resid 21 "BrD " and resid 21	[24912] megld "BrD" and resid 24 megld "BrD" and resid 21 2 600 1 700 1 700	I {24932} { segid "BrD " and resid 24 { segid "BrD " and resid 24 2 200 1 200 1 200 1	12 (25432) ( segid "BrD " and resid 85 ( segid "BrD " and resid 82 3 100 2.400 2 400 pe	{25552} segid "BrD " and resid losegid "BrD " and resid losegid 1300 1300	rD " and re rD " and re 2.200	rD " and red rD " and red 2 900	rD " and rD " and 4 400	xD " and xD " and 2 200	rD " and res rD " and res 1.600	3rD " and re 3rD " and re 2 400	(26592) segid "BrD " and resid lo segid "BrD " and resid lo 2 700 1.800 1.800	rD * and re rD * and re 1 000	rD and re rD and re 1 200	rD and re rD and re 3 100	rD and re	2 2
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() (10)	Meaght 0 11000E+01 volume 0 13154E+03 ppm. 3 768 ppm2 4 (PD 1)	MB3 )	Add Table 1887 1 0 11000E+01 volume 0 50135E+03 ppml 3.768 ppml and name Hzv ()	And Table Assistance	Peak 2355 months 1 401 ppm2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	pak 1 steps moist 0.11000E+01 volume 0 14113E+03 ppml 2 143 ppm2 and name HA ))	and than HG21) peak 21702 weight 0 11000E+01 volume 0 49676E+02 ppml 4 656 ppm2 and anne HG ))	and name HD2t) peak 23722 weight 0 11000E+01 volume 0 69871E+02 ppml 2 044 ppm2 0 and name HA )	Aid Table 19 7) 4 656 ppm2 peak 23.29 veragh 0.11000E+01 volume 0 89711E+03 ppm1 4 656 ppm2 and name HD14) 4 698 ppm2 end name HD14)	Prock 23852 weight 0 11000E+01 Volume 0 75160E+03 pgml 1 402 ppm2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Peak 23952 weight 0 11000E+01 volume 0 79651E+02 ppml 0 911 ppm2 4 and name HB1)	Deak 23962 weight 0 11000E+01 volume 0 98332E+02 ppml 2 144 ppm2 4 and name HD24)	Presk 24042 weight 0 11000E+01 Volume 0 13399E+03 ppml 0 414 ppm2 4 and name HD24 and	peak 24052 weight to 11000E+01 volume 0 29789E+03 ppml 0 415 ppm2 6 and name HDVH and name HDVH.	peak 24062 weight 0 11000E+01 volume 0 22219E+03 ppml 0 415 ppm2 7 and name HD24)	easght 0 110008-01 volume 0.70185E-02 ppml 0 419 ppm2 3 1024)	13.1/1 0 11000E+01 volume 0 13658E+03 ppml 0 415 ppm2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	na.v.)  Meagit 0 110008+01 volume 0 725798+02 ppml 0.414 ppm2 1 1024)	nn // 1 11000E+01 volume 0 52592E+02 ppm1 0 414 ppm2 4 weight 0 11000E+01 volume 0 52592E+02 ppm1 0 414 ppm2 4 4 ppm2 1 1 ppm2 1 ppm	HES 1 ) 110006-01 volume 0 101455-03 ppml 1.058 ppm2 7 (1014)	1   1   1   1   1   1   1   1   1   1	HA )) Weight 0 11000E+01 volume 0 78587E+02 ppml 1 056 ppm2 4	HD18) (M. )) weight o licoom-ol volume o 26998E-cl ppml l 647 ppml 4 HD28)
i resid 9 and name HD1))	Meaght 0 11000E+01 volume 0 13154E+03 ppm. 3 768 ppm2 4 (PD 1)	resist 9 and lamme Hill) 1 1000E+01 volume 0 39945E+03 ppml 3 768 ppm2 2 teat 9 and hamme HDL)) 2 and hamme HDL))	aid laid mar/1 )  3 00 peak 2320 weight 0 11000E+01 volume 0 50135E+03 ppml 3.768 ppml could 11 and name H7 )		1.000 peak 2350 peak 2350 sepigit 0 11000E+01 volume 0 34571E+03 ppm1 1 401 ppm2 4 resid 14 and name HBZ ))	**************************************	zeard 17 and name HG21 2 loop peed 21702 velaght 0 11000E+01 volume 0 49626E+02 ppml 4 656 ppm2 zeard 14 and name HG ))	isid 18 and hamm HD2t) 2 300 peak 23722 weight 0 11000E+01 Volume 0 69871E+02 ppml 2 044 ppm2 0 851d 14 and name HA ))	Seal of 7 and make he ))  1.00 pank 2.322 weight 0.11000E+01 volume 0 89711E+03 ppml 4 656 ppm2 each 31 and name BD19, each 31 and name BD19,	1 200 peak 21852 waight 0 11000E+01 Volume 0 75160E+03 ppml 1 402 ppm2 4 20 sead 18 20 ppm 182 ()	2 300 peak 23952 weight 0 11000E+01 volume 0 79651E+02 ppml 0 911 ppm2 4 ese41 28 and name HEL)	2 400 peak 23962 weight 0 11000E+01 volume 0 98332B+02 ppml 2 144 ppm2 4 each 13 and name H724)	2 100 peak 24042 weight 0 110008+01 volume 0 133998+03 ppml 0 414 ppml 4 receil is and name HD24)	1 600 peak 24052 weight 0 11000B+01 volume 0 29769B+03 ppm1 0 415 ppm2 6 reseat da and name HD24)	1 800 peak 24052 weight 0 11000E+01 volume 0 22219E+03 ppml 0 415 ppm2 7 nontile and name HD24)	2 300 peak 24072 waight 0 110008+01 volume 0.701858-02 ppml 0 419 ppm2 3 seats 13 and name HT24)	peak 24082 weight 0 11000E+01 volume 0 13658E+03 ppml 0 415 ppm2 2 and name HT24)	And have Aught 0 11000E+01 volume 0 72579E+02 ppml 0.414 ppm2 1 and name AD24)	2 100 peak 24.32 weight 0 110008.01 volume 0 525926.02 ppml 0 414 ppm2 4 veet die and name 1054)	22104 and name http://www.coadla.com/coadla/	resid 70 paid imme hil/ 1 1000E+01 volume 0 27877E+03 ppml 1 056 ppm2 resid 16 and name HD19)	ceald 74 and name HA )) 2 300 peak 24212 weight 0 11000E+01 volume 0 785878+02 ppml 1 056 ppm2 4	iname HD21)  1 647 ppm2 4  1 647 ppm2 4  1 mame HD21)

	1 832	4 828	5 540	4 636	4 636	7 535	4 696	3 304	4 126	5 542	5 114	4 407	4 60		4 680	1 547	3 633		957	3 670	3 669	5 585	4.810	7 485		4 939
; ;	1 . 303 ppm2	2.143 ppm2	1 544 ppm2	3 137 ppm2	1 847 ppm2	1 848 ppm2	2 536 ppm2	2 585 ppm2	2 634 ppm2	2 645 ppm2	4 310 ppm2	2 978 ppm2	2 730 pmg	2	3 033 ppm2	5 346 ppm2	2 641 ppm2		707 bbwz	2 633 ppm2	2 701 ppm2	4 459 ppm2	1 895 ppm2	4 950 ppm2		3.597 ppm2 2 337 ppm2
200000000000000000000000000000000000000	1.444.444.4 ppm.	0 401825+03 ppm1	0 68400E+02 ppm1	0 37484E+03 ppm1	0 84530E+02 ppm1	0.44730E+03 ppm1	0 12060E+03 ppm1	0.16180E+03 ppm1	0 45332E+02 ppm1	0 36619E+02 ppm1	0 69345E+02 ppm1	0 26299K+03 ppml	0 151918+03 ppm1		0 46894E+03 ppml	0 20014E+02 ppm1	0 20564E+03 ppm1		Tudd co-sococo	0.23393E+03 ppml	0 221248+03 ppm1	0 17278E+02 ppml	0 452878+02 ppm1	0 39658E+03 ppm1		0.49260E+03 ppml
american to another of		0 11000E+01 volume	0.11000E+01 volume	0.11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000B+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume		0.11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume			0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0 11000E+01 volume	0.11000E+01 volume		0 11000E+01 volume (0 11000E+01 volume (
102 and name HB2 })	(15 and name HG ))	and name peak 28802	and name and name peak 28962	is and name HG2 )) if and name HA }) io peak 28982 weight	6 and name HBt )	and name HE# ) 4 and name HE# ) 0 peak 29122 weight	4 and name HEt) 8 and name HB )) 0 peak 29182 weight	4 and name HB1 )) 4 and name HG1 )) O peak 29282 weight	4 and name HB2  ) 4 and name HD2 )) 0 pcak 29312 weight	and name and name peak 29342	4 and name HD1 )) 4 and name HA )) 0 peak 29362 weight	1 and name HB1 )) 1 and name HD2 )) O peak 29422 weight	1 and name HB2 )) 1 and name HD2 )) 0 peak 29432 weight	and name	peak 29492	and name HG1*)  peak 29612 weight	s and name HB2 )) and name HD2 )) peak 29932 weight	and name	and name	peak 29952 weight	and name peak 29962	and name and name peak 30032	and name HD1 )) and name HA )) peak 30052 weight	and name HA )) and name HEV) peak 30162 weight	and name	peak 30202 weight and name HBI ) and name HDt )
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	2 735 ppm3	2 733 ppm2		and car	2 782 ppm2	2 779 ppm2	912	962	325	536	2 536 ppm2	2 338 ppm2	2 979 ppm2	1 058 ppm2	1 599 ppm2		1 599 ppm2	1 <b>6</b> 00 ppm2	0 760 ppm2	0 662 ppm2	1 549 ppm2		1 253 ppm2	1 253 ppm2	1 254 ppm2	1 303 ppm2
	0 35938E+03 ppm1	0 10069E+03 ppm1	204305405		0 34874E+02 ppml	0 47090E+03 ppml			0 16302E+03 ppm1	0 12614E+03 ppml	0 14981E+03 ppm1	0 47841E+00 ppml	0 72273E+03 ppm1	0 93003E+02 ppm1	0 14735E+04 ppm1		0.70123E+03 ppm1	0 12667E+03 ppm1	0 39776E+02 ppml	0 49710E+02 ppml	0.10505E+03 ppml		0,25930E+02 ppml	) 48455E+02 ppml	0.68625E+02 ppm1	0 89519E+03 ppml
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and name HB1 ))	2 and name HZ2 )) Deak 26782 weight	and name HB1 )) and name HH2 )) peak 26792 weight	and name and name	and name	peak 26862 and name and name	peak 26882 and name and name	peak 27152 weight and name HD1 )) and name HA ))	peak 27162 weight and name HB1 )) and name HA ))	peak 27212 weight and name HB2 )) and name HB1 ))	and name HB2 ))	peak 2/252 weight and name HG  ) and name HA  )	peak 27312 weight and name HB1 }} and name HA }}	peak 27352 weight	and name HB1 ))	and name HD2*) and name HG )) ak 27512 weight	and name HD2*)	ak 27522 weight and name HD2%)	ak 27682 weight	and name HDt ) ak 27922 weight and name HD2ki	and name HDt ) peak 27972 weight	and name HD1%) and name HB1 )) peak 28242 weight	and name HD2%)	peak 28282 weight and name HD24) and name HB1 ))	peak 28312 weight and name HD24)	and name haz )) sak 28362 weight	and name HA )) sak 28672 weight and name HD24)
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1.599 ppm2	2 291 ppm2	2 1.90 ppm2	2 191 ppm2	1 991 ppm2	1 991 ppm2	:	5 000 ppm2	1 650 ppm2	1 646 ppm2	1 647 ppm2	4 164 ppm2	4 164 ppm2		5 146 ppm2	3 522 ppm2	3 669 ppm2	4 802 ppm2		1 646 ppm2	1 401 ppm2	3 866 ppm2		2 290 ppm2		1 058 ppm2	1 057 ppm2	1 599 ppm2
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11 ame 6222	seo2 weight	name Hbt / name HA /) 1792 weight	name HB% ) name HG2 )) 5832 weight	and name HB% ) and name HG2%) weak 6852 weight 0	name HBt ) name HD1t) 5862 weight 0	name HA ))	5902 weight lame HG2%)	1952 weight	see HD2%)	tame HG ))	name HG1%) name HG1%) 7412 weight	name HA }) name HB4 ) 7422 weight	lame HA ))	7442 weight 0 name HB2 ))	7462 Weight 0	name HD1%) 7472 weight o	name HA }) name HB2 }) 8082 weight	name HD14)	3132 weight name HG1 })	ane HD1 ))	name nA )) name HG12)) 8282 weight	name HG )) name HD2%)	8362 weight 0	name name	8422 weight o	and name HA )) peak 8432 weight 0 1	and name HD2%) and name HD2%) peak 8512 weight 0 1
1.300	aegid "BrD " and read 56 g [ 6792]	BrD " and resid 55 and r 2.200 2 200 peak 6	Begid "BrD" and resid 99 and segid "BrD" and resid 86 and 3 000 2 200 2 200 peak { 6852}	eegid "BYD " and resid 113 and a segid "BYD " and resid 110 and a 2.800 2.000 2.000 peak (	segid "BrD" and resid 113 and 1 segid "BrD" and resid 18 and 1 4 900 4.900 0 600 peak	{ 6902} segid "BrD " and reald 31 and 1 segid "BrD " and reald 33 and 1	3 300 2 700 2 200 p 1 { 6952} and resid 25 secid "BrD " and resid 25 secid "BrD " and resid 31	1.600 1 600 p BrD " and resid 25	BrD " and resid 56 and r 1600 1600 peak 6 BrD " and resid 25 and r		BrD " and resid 46 and a BrD " and resid 49 and a 2 900 2 100 peak	( segid "BrD " and resid 46 and r segid "BrD " and resid 43 and i 3 600 3.200 1 900 peak	BrD " and resid 68 BrD " and resid 63	1 800 eard 68	2 400 esid 68	segid "BrD " and read 18 3 100 2 400 2 400 P { 8082}	segid "BrD" and resid 98 and 1 segid "BrD" and resid 30 and 1 2 900 2 100 2 100 peak 4	{ 8132} segid "BrD " and resid 63 segid "BrD " and resid 15	2 800 2 000 2 000 p { 8252} eegid "BrD " and resid 109	Į.	segid "BrD" and resid 21 and segid "BrD" and resid 2 700 2 200 peak	urD " and re	2,400 2,400 peak 3rD " and resid 18 and	resid 18	2 700 1.800 1 800 ps { 8432} segid "BrD " and resid 18	1.800	and resid 22 and resid 78 700 2 200
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0 11000E+01 volume 0 21345E+03 ppm1 2 338 ppm2 7	and hame HEI )) and name HE () set of the property volume 0 90555E+02 pom1 3 080 pum2 4	and name HELL)	and name HE1)	weight 0 11000E+01 volume 0 14017E+03 ppml 3 079 ppm2 HAR ) )	eak 30512 weight 0 11000E+01 volume 0 12187E+03 ppml 3 176 ppm2 4 and name HD1 ))	ana name na 1) aka name na 1) aka 2022 waagat o 11000B+01 volume o 17943B+04 ppml 1 594 ppm2 4 aka name HH1 il	and name HA )) ak Joezz wazght D 11000Ex01 Volume O 44758Et03 ppml 2 134 ppm2 4	and hames HEQ. )) and hames HEQ. )) abd 30632 weight 0 11000E+01 volume 0.21060E+03 ppml 2 139 ppm2 4	HG2 )) Hgh ) 110008+01 volume 0 423058+03 ppml 2 143 ppm2 4	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	2 289 ppm2 and name Holl) and name Holl)	eight 0 11000E+01 volume 0 32568E+03 ppml 2 000 ppm2 4	A 11 0 11000E+01 volume 0 34175E+03 ppml 2 240 ppm2 4 E1 1)	NA   1   1   1   1   1   1   1   1   1	HBD 1) HB2 )) weight 0 110005+01 volume 0 72521E+03 ppml 2 287 ppm2 3	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	Weight 0 ll000E+01 volume 0 50216E+03 ppml 2 287 ppm2 3 (1811)	Hell) weight 0.11000E+01 volume 0 79378E+03 ppml 2 387 ppm2	HES )	name HD14) name HB11) (A32 waich: 0.1000Re0) volume o 10123P-04 mms 1 164 mms .	ламе (О1 ))	4042 weight 0 1000008+01 volume 0 304395+02 ppml 3 029 ppm2 2	name (HD1 )} name (HD11) 4682 weight O 100008+01 volume O 223638+03 ppml 2 191 ppm2 1	iname HB1 )) iname HB1) iname	anne HG2 ))	Asse Within a Loudoneror volume o 1481/6464 ppm. 2 586 ppm.	name H021) 6092 weight 0 10000E-G1 Volume 0 29486E-02 ppml 2 140 ppm2 1 name HD21)
11000E+01 volume 0 21345E+03 gpm1 2 338 ppm2 7	and hame HEI )) and name HE () set of the property volume 0 90555E+02 pom1 3 080 pum2 4	and yeard 86 and name HEI))	and name HE1)	2.100 pack 30412 weight 0 11000E+01 volume 0 14017E+01 ppm) 3 079 ppm2 remeat 4109 and name HR1)	100 2 100 peak 10512 weight 0 11000E+01 volume 0 12187E+03 ppml 3 176 ppm2 4 and reard 109 and name HD1 ))	easia 120 peak 10522 waaaht 0 11000B+01 volume 0 17943B+04 ppml 1 994 ppm2 4 0 900 peak 10522 waaaht 0 11000B+01 volume 0 17943B+04 ppml 1 994 ppm2 4 0 900 and namm Hill 1)	eaid 106 and name NA )) 1 400 peak 10622 waight 0 110008+01 volume 0 447888+03 ppml 2 134 ppm2 4	eask1 (09 and name HZ)   seast 100 and name HZ)   1 400 peak 10632 weight 0 11000E+01 volume 0.21060E+01 ppml 2 139 ppm2 4	ceald 97 and name HG2 )) ceald 97 and name HG2 )) 1 400 peak 3073 weight 0 11000E+01 volume 0 42305E+03 pgml 2 143 ppm2 4	easd 104 and name HDI )) cold 104 and name HA ))	o fou peak lost weight o illouderil Volume 0.32351E+04 ppml 2 289 ppm2 recessill ill and name (A) )	1 600 peak 10862 weight 0 11000E+01 volume 0 12568E+03 ppml 2 000 ppm2 4 estd 111 and name HDI ))	easia 11. 1. 600 peak 310 700 me ta 7) 11000E+01 volume 0 34175E+03 ppml 2 240 ppm2 4 1.600 peak 310770 mend filmen Resight 0 11000E+01 volume 0 34175E+03 ppml 2 240 ppm2 4	esid 111 and name NA }) 1 200 prdX 30912 Waight 0 11000E+01 Volume 0 72636E+03 ppml 3 520 ppm2 4	0 110006+01 volume 0 72521E+03 ppml 2 287 ppm2 3		1 300 peak 31032 weight 0 11000E+01 volume 0 50216E+03 ppml 2 287 ppm2 3 smeak 72 and name HB1)	and name Ht.1 ) pak 31042 weight 0.11000E+01 volume 0 79378E+03 ppml 2 387 ppm2	batz (z. and mame HBL )) 1942 (2. and name HBZ )) 0 900 peak 31052 weight 0 11000E+01 Volume 0 15518B+04 ppml 2 386 ppm2 3	HD14) HB11 )	pead 79 and name HO1))	1 800 peak 4042 weight 0 10000E+01 volume 0 30439E+02 ppml 3 029 ppm2 2	HD21) HD21) weight 0 10000E+01 volume 0 22363E+03 ppml 2 191 ppm2 1	HB1 )} HB15; Menght 0100008+01 volume 0.108098+03 ppm1 2 683 ppm2 1	anne HG2 ))	r so green, 4552 weight o 100002401 Volume o 1481/httl ppm. 2 586 ppm.z resid 115 and name HG }}	resid 110 and name HO2%) 1 800 peak 5092 weight 0 10000ErO; volume 0 29496ErO2 ppml 2 140 ppm2 1 resid 22 and name HD2%)

#### DSSIDSI4 DEEECO

2 490		2 597	2 345	4 588	1 329		2.798	2 799	4.654	1 493	2 311	2 783	4 460	1.587	2 876	4 860	2 571	2 323	2 467		1 084		
1 947 ppm2		4 360 ppm2	3 522 ppm2					4 755 ppm2	2 099 Smdd	1 889 ppm2	4 509 ppm2	4 509 ppm2	3 080 ppm2	2 334 ppm2	2 291 ppm2	2 979 ppm2	5 347 ppm2	0 761 ppm2				607	ì
0 19570E+03 ppml	997415+02	0 17585E+02 ppm1	0 15368B+02 ppm1	0 19616E+03 ppml	9	80809E+03	0 32594E+02 ppm1	0 31695E+02 ppm1	0 788698+01 ppm1	0 91996E+02 ppml	0 67300E+03 ppm1	0 18352E+03 ppm1	0 14787E+03 ppm1	0 46116E+02 ppml	0 90515E+02 ppm1	0 16032E+03 ppm1	0 43713E+02 ppm1	0 58134E+02 ppm1	03	30644E+03	29522E+02	66213E+02	864135.+02
• 0 10000E+01 volume	0 10000E+01	0.10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume		0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10060E+01 volume	0 10000E+01 volume	0 10000E+01 volume	vol	volume	U TO
and name HB2 )) and name HB2 )) peak 9992 weight	name name 10032	and name HB2 )) and name HB1 )) peak 10142 weight	and name HB2 )) and name HG1 )) peak 10172 weight	and name HG1 )) and name HB2 )) peak 10512 weight	and name and name eak 10832	and name and name eak 10842	and name HB1 )) and name HG1 )) peak 10912 weight	and name HB2 )) and name HG1 )) peak 10922 weight	and name HA )) and name HA )) peak 10962 weight	and name HG1 )) and name HD2%) peak 11342 weight	and name HA )) and name HB% ) peak 11372 weight	and name HA )) and name HEV ) peak 11382 weight	and name HE1 )) and name HA )) peak 11502 weight	9 and name HB1 )) and name HG24) peak 11572 weight	and name HB2 )} and name HG1 )} peak 11642 weight	and name HB1 }) and name HA }) peak 11752 weight	and name HA )) and name HB2 )) peak 11832 weight	and name HG2%) and name HG )) peak 12292 weight	and name HG1 )) and name HB2 )) peak 12502 weight	and name HE* ) and name HB1 )) peak 12633 weight	and name HA )) and name HD14) peak 12732 weight		
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ASSI { 9992} (( segid "B (( segid "B 2.700	ASSI {10032} ({ segid "B ({ segid "B ( segid "B		ASSI {10172} (( segid "B (( segid "B 4 200	ASSI {10512} ({ segid "B ({ segid "B 2.700	ASSI (10832) (( segid "B ( segid "B 3 600	ASSI {10842} (( segid "B ( segid "B 3.200	ASSI {10912} (( segid "B (( segid "B 3 700		ASSI {10962} (( segid "B: (( segid "B: ( segid "B: 4 600	ASSI {11342} (( segid "B: { segid "B: 3 100)	Assi (113/2) (( aegid "BrD " and ) ( segid "BrD " and ) 2 200 1 200 Assi (11382)	(( segid "B ( segid "B 2 800 ASSI {11502}	(( Begid "BrD " and r (( Begid "BrD " and r 2 900 2 100	( segid "B) ( segid "B) ( segid "B) 3 500	(( segid "B)	- 4 4 (4 -			ASSI {12502} ({ seg1d "BrD " and r (( seg1d "BrD " and x 4 000 4.000	ASSI (12632) {	ASSI (12732) (( segid "Bi ( segid "Bi 3.700	(12752 Beg1d Beg1d 3 300	ASSI (12872) (( segid "B)
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1 871	808	1 494	4 900	0 758	1 921	1 080	0 924	0 427	1 612	1 320		1 143	0 670	1,748	4 536	4 928	2 182	2.182	1 586	0 750	0,676	1 271	1 152
1 599 ppm2 1 871	1 645 ppm2 4 809	2 286 ppm2 1 494	2 685 ppm2 4 900	1 547 ppm2 0 758		1 254 ppm2 1 080						1 600 ppm2 1 143	1 596 ppm2 0 670	1 205 ppm2 1.748			2 338 ppm2 2 182	1 252 ppm2 2.182			1 154 ppm2 0.676		
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name HC24) name HC84 ) 8522 weight 0 100008+01 volume 0 12491E+03 ppml 1 599 ppm2 1	name HD11) 1632 weight 0 100008:01 volume 0 232658:03 ppml 1 645 ppm2 4	name HB2) aname HD24) assa weight 0 100008+01 volume 0 24738E+03 ppml 2 286 ppm2 1	name: M3 ) ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	tanne HD18) Tanne HD28) 8632 Weight O 10000E+01 Volume O 24706E+02 ppml 1 547 ppm2 O	and hawe NGO2)) and hame 8642 weight 0 10000E+01 volume 0.13013E+04 ppm1 1 548 ppm2 1	and thame MC21) and thame MC11) peak 8702 weight 0 10000E+01 volume 0 46717E+03 ppm1 1 254 ppm2 1	and name (BD1) and name (BD1) peak 8332 each 1000008+01 volume 0 156988+02 ppml 0 761 ppm2 0	and name HO24)	and hamme [Az. ] ) and hamme [G24] (	and imme Ed.2); and mane ED.34) ak 9102 weight 0 10000E+01 volume 0 31128E+02 ppml 1 648 ppm2 1	and and	Deak 9122 weight o looode.OI volume O 127218.03 ppml 1 600 ppm2 1 and name MESI.  and name MESI.	9112 waight 0 10000E+01 volume 0 50284E+02 ppml 1 596 ppm2 0 mamm #ED14; name #ED14;	peak 3172 weight 0 10000E+01 volume 0.33280E+03 ppml 1 205 ppm2 and anne KO314 )	700 peak 9402 weight 0 10000E+01 volume 0 25016E+03 ppml 1 597 ppm2 4 1101 and famew HG2H.	OO peek statio maayir 0 100008+01 volume 0 171828+03 ppml 1 598 ppm2 4	Annia de la company de la comp	name Hill) 1252 ppm2 9502 waght 0 10000E+01 volume 0 34762E+03 ppm1 1 252 ppm2 intere KG2#)	name HGI1) 9512 weaght o 10000E+01 volume o 13973E+01 ppm1 1.353 ppm2 1 name HGI1)	78 and name HB18)  Openek 9572 washt 0 10000E+01 volume 0 27664E+02 ppm1 1 154 ppm2 0  110 and name HB18)	78 and name HI24) 10 peaks 3602 weight 0 10000E+01 volume 0 49420E+02 ppm1 1 154 ppm2 11 and name HO34)	nome HG234) 9622 weight 0.10000E+01 volume 0.18357E+03 ppm1 1.401 ppm2 1.401	names (ED11) 9612 weight © 10000E+01 volume © 69032E+03 ppml   1 399 ppm2   1
resid 22 and name HD24) resid 59 and name HSV ) 2 loo peak 6522 weight 0 loodo8+01 volume 0 l24916+03 ppml 1 599 ppm2 1	and fract of a read from HTI)  segod "BLP" and read of and name HTI)  1.700 eak 8512 weight 0 100008:01 volume 0 232688:03 ppml 1 645 ppm2 4 (582)	ceald 2. and name HR21)  resid 6. and name HP21)  1. 700 peak 650 weight 0 100006+01 volume 0 247306+03 ppml 2 286 ppm2 1  none 6. and name 1931 1	megrd 'BED' and resid 35 and name HB /) 2 600 2 000 cooper 8612 weight 0 10000E+01 volume 0 17130E+03 pgml 2 665 ppm2 4 6652 pm. 2 000 peak 6612 weight 0 10000E+01 volume 0 17130E+03 pgml 2 665 ppm2 4 6652 pm.	and feel, se and name HDX).  seeged FBCP - and feel, sed and name HDX).  \$100 3 600 1.700 peak 8632 weight 0 10000E+01 volume 0 24706E+02 ppml 1 547 ppm2 0 (8642).	orogid 'BFO' and reaid lid and name NG13) 2 000 1 000 1 000 peak 8642 weight 0 1000E+01 Volume 0.13013E+04 ppml 1 548 ppm2 1 (8702)	and face is and take HID2) and face is and thane HID2) and face is and than HID2) and face is and than HID2) and face is and than HID2 and face is an experiment to the HID2 and f	oegid 'BFD' and recid 79 and name HD1); 4100 4 100 1 400 pank 832 washt 0 100008-01 volume 0 156988-02 ppml 0 761 ppm2 0 6 882]	And death of and name HD21) send feath of and name HD21) send feath of and name HD21) send feath of a and name HD21) send feath of a great way and the HD21 (942)	and a feet of and name HA 1)  and resed 102 and name HA 1)  and resed 102 and name HO21  10 2 400 2 400 peak 8942 weaphe 0 10000E+01 volume 0 83720E+02 ppm1 4 263 ppm2 1 (	Febil 21 and imme [4012] result 102 and and ED24)  1 800 peak 9103 weight 0 10000E+01 volume 0 311288+02 ppml 1 648 ppm2 1  veat 31 and new WG131	ocgaid BED and resaid 12 and name ( 9122) segaid "BED" and resaid 12 and name segaid "BED" and resaid 21 and name segaid "BED" and name	2.100 peak 9122 weight 0 10000E+01 volume 0 12723E+03 ppml 1 600 ppm2 1 1 end ppm 2 1 1 0 0 ppm 2 1 1 0 ppm 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 loo peak 9123 waight o loooOE+O1 volume o Goza4E+O2 ppml 1 596 ppm2 o resid 21 and name HD14)	2 500 1 600 1 600 peak 9172 weight 0 10000E+01 volume 0.33280E+03 ppml 1 205 ppm2   9402   9402   1 205 ppml 1	2 doi 1 700 peak 9402 weight 0 100008+01 volume 0 25016B+03 ppml 1 597 ppm2 4 (9412) and result and name HCS1 and result 11 31 ppm HTS1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	200 2 000 2 000 perk data manght 0 100008+01 volume 0 171828-03 ppml 1 598 ppm2 4 (945) 2 000 perk data manght 0 100008+01 volume 0 171828-03 ppml 1 598 ppm2 4 4421 ppm 2 and ceased 110 and name HP ()	2 200 2 200 2 200 peak again ( 2 200 peak) 2 200 peak 200 2 200 2 200 peak 200 2 2 200 peak 200 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	restard is and name Hell)  1 GOOD park 9:900 beaught 0 10000E+01 Volume 0 34762E+03 ppml 1 252 ppml resuld 110 and name HGD4)	readd 15 and name HG12})  Tool peak 951 weight 0 10000E+01 volume 0 31973E+03 ppm1 1.353 ppm2 1 xeadd 110 and name HD14)	megid TBCD " and read 79 and name HDIM)  1 800 1 700 000 00 1 700 000 000 000 000 00	and read 78 and read 78 and name HD24) 3 400 2 420 2 522) 3 400 3 400 1 1 154 ppm2 9 6 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	febid 110 and name HG2H	HOINT. Weight 0 10000E+01 volume 0 69032E+03 ppml 1 399 ppm2 1

						-1	ppm2						ppm2		411 ppm2	1.254 ppm2	2mdd 686	866 ppm2	057 ppm2	205 ppm2	S ppm2		
4 360 ppm2	2 091 ppm2	1.402 ppm2		3 667 ppm2	4.459 ppm2	4 457 ppm2				7		m		4	4	ä	-	m	-	, ,	2,535	4 460	r. 4
0.36366E+02 ppm1	944E+03 ppm1	.21486E+03 ppml	75+02	32251E+02 ppm1	54061B+02 ppml	0.10335E+03 ppm1	61370E+02 ppm1	8				6			18018E+03 ppm1	23487E+03 ppm1	36391E+02 ppml	30202E+02 ppm1	91159E+02 ppm1	8	S		
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0.10000E+01 volume	5+01 volume	2+01 volume	8+01 volume	3+01 volume	3+01 volume	3+01 volume	<pre>2+01 volume</pre>						01		To+	+01 volume	+01 volum	+01 volume	+01 volume	+01 volume	+01 volume	.01 vol	
	0 100002+01	0 10000E+01	0 10000E+01	0 100005	0 10000E+01	0 10000E+01	0 10000E+01					•	•	0 (	1000000	0 10000E+01	0 100008	0 10000E+	0 100005+01	0 10000E+01	0 100008-	0 100008+01	0 10000E+01
resid 68 and name 1.900 peak 13982	segid "BrD " and reaid 76 and name H94 ) segid "BrD " and reaid 80 and name HGI )) 2.800 2 000 2 000 peak 14032 weight	(480'24) and regid 14 and name HD1%) segid "BrD" and regid 70 and name HA )  2 00 1 800 peak 14052 weight (1410)	(14112)  (segid 'BrD' and resid 14 and name HA ))  sessid 'BrD' and resid 113 and name HBt )  3 100	(14212) [neg1d 'BrD " and res1d 98 and name HB2 )) [seg1d 'BrD " and res1d 30 and name HB1 )) 3 700 3 400 1 800 peak 14212 weight	(1422 # BrD " and resid 99 and name HA )) segid "BrD " and resid 102 and name HG )) 3 400 2 900 2 100 peak 14222 weight	1444.7   1	esid 31 and name esid 33 and name 2 200 peak 14262	resid 31 and name resid 25 and name 2 200 peak 14272	resid 110 and name resid 115 and name	resid 63 and name	1 600 peak 14302 reald 103 and name resid 102 and name	2 000 peak 14332 cend 106 and name cend 109 and name	1 500 peak 14352 esid 15 and name esid 14 and name	3 800 3 600 1 700 peak 14382 weight (14442) (eegad "BrD" and resid 110 and name HA )) segad "BrD" and resid 115 and name HB1))	"BrD " and resid 115 and name	(1443 2)  Oegid "BrD" and resid 110 and name HG24)  Oegid "BrD" and resid 115 and name HD34)  2 600 1 700 1 700 peak 14452 weight	(1491) 86914 "BrD" and resid 111 and name HG1  ) 8601 8 and resid 110 and name HG24) 8600 3 200 1 900 peak 14512 weight	(19024) 8ED and resid 18 and name HA )) segid "BiD" and resid 21 and name HG11)) 3.00 3.400 1.800 peak 14652 weight	[480.4] segid "BPD" and resid 18 and name HD1%) segid "BPD" and resid 63 and name HG }) 3 100 2 400 2 400 peak 14672 weight	rD " and resid 21 rD " and resid 63 2 300 2 200	[14752] segid "BrD" and resid 54 and name HEt) segid "BrD" and resid 81 and name HGIt) 3 700 3 400 1 800 peak 14752 weight	"BrD" and reeld 51 and name "BrD" and reeld 53 end name FD" 8500 0.000 peak 14762	esid 36 and name
AGSI	) )	1000	ASSI (	ASSI (	1004	, , , , , , , , , , , , , , , , , , ,	ASSI (	ASSI (	ASSI (	ASSI (	ASSI (	ASSI (	ASSI (	ASSI (	OR (1442) (( segid (( segid	22	( 8 ) ( 8 )				ASSI (:	ASST (	ASSI (
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2.484	1 075	5 142	5 141	0 190	1.637		1 145	2 516	1 252	1 417	1 148	2.101	3.662	1 996	1 488	1.009	2.508	3 159	4 483	1 030	0 88 0	1. 362	<i></i>
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peak 12872 weight 0.10000E+01 volume 0.44554E+02 ppml 3.177 ppm2	sasd 54 and amee HG11  ) 2.100 peak 13092 weight 0 100006+01 volume 0 51666E+02 ppm1 1 288 ppm2 1	ais4 3 and name HS )} 3.200 peak 13112 weight 0 10000E+01 volume 0 10760E+03 ppml 2 486 ppm2	as4 72 and name Hall) 2 100 peak 13122 weight 0 10000E+01 volume 0 13268E+03 ppm1 2 583 ppm2 5	and name HB1) and name HG2N) peak 13232 waight 0 1000008-01 volume 0 45934E+02 ppml 3 275 ppm2 0	and name (M) ) and name (G24) peak 13202 weight 0 10000E+01 volume 0 66016E+02 ppm1 4 607 ppm2	and name	M442)   Weight 0 10000E+01 volume 0 18778E+03 ppml 1 548 ppm2	and name #13.1) and name #21.1) peak 13332 weight 0 1000005+01 volume 0 34390E+03 ppm1 1 648 ppm2 2	and name HG11) ard name HG21) peak 13412 weight 0 100008-01 volume 0 127268-03 ppml 1 795 ppm2 1	HB )    (10011)	and tame KB )) and and AB   )  Peak 1352 Healt 0 10000E+01 volume 0 1889EE+02 ppml 2 634 ppm2 1	and name HG1 )) and name HG1 )) prest 13682 weight 0.10000E+01 volume 0 37412E+02 ppm1 2 537 ppm2	and name Hz )) auto name Hz )) peak 13722 weight o 10000E+01 volume 0 44471E+02 pgml 5 226 ppm2	and name HB2 )) and name HB2 )) peak 13752 weight 0 100008+01 volume 0 20264E+03 ppml 1 498 ppm2 1	and names M.) ) and drames M.) ) peak 13772 weight 0 10000E+01 volume 0 18294E+02 ppml 4 951 ppm2 1	and name HG24) and name HG24) peak 13792 weight 0 10000E+01 volume 0 26015E+02 ppml 1 646 ppm2	and name Ms.) ) and name Ms.) ) peak listz woight 0 10000E+01 volume 0 14558E+02 ppml 4 656 ppm2	on thanse [82]) and name [82]) peak 13812   0 10000E+01 volume 0 92421E+02 ppml 2 685 ppm2 3	and name HE2 }} and name HE2 }} peak 1342 weight 0 10000E+01 volume 0 56015E+02 ppml 2 636 ppm2 4	and name HG2+) and name HG2+) and name HG2+ 10000E+01 volume 0.356888-02 ppml 1 425 ppm2 1	and name NG2*) and name H82 1) paak 13872 wooght 0.10000E+01 volume 0.14355E+01 ppml 1 425 ppm2 0	and name HAA }} and name HO24) peak 1385 e.c. o 10000E.c. o 10000E.c. volume 0 11539E.c. ppml 5 298 ppml 1	and name HA. )) and name HDL*)
2.000 peak 12872 weight 0.10000E+01 volume 0.44554E+02 ppml 3.177 ppm2	sasd 54 and amee HG11  ) 2.100 peak 13092 weight 0 100006+01 volume 0 51666E+02 ppm1 1 288 ppm2 1	ais4 3 and name HS )} 3.200 peak 13112 weight 0 10000E+01 volume 0 10760E+03 ppml 2 486 ppm2	as4 72 and name Hall) 2 100 peak 13122 weight 0 10000E+01 volume 0 13268E+03 ppm1 2 583 ppm2 5	baid 46 and name HB1 )) 591d 38 and name HG2*) 2 000 peak 13512 waight 0 100008+01 volume 0 45934E+02 ppml 3 275 ppm2 0	Basid Sc and name HAA )} 24400 peak 13282 weight 0 10000E+01 Yolume 0 &601&8+02 ppml 4 607 ppm2	esid 56 and name esid 116 and name	20.41 10.40 and state 50.27) 1.00 pack 1.312 weight 0 100008.01 volume 0 187788.03 ppml 1 548 ppm2	6314 Z. And name HDIN. 4814 G. and name HB2 ]) 1 600 peak 13322 weight 0 10000E+01 Volume 0 34390E+03 ppml 1 648 ppm2 2	eaid 55 and hame HG1V) eaid 56 and hame HG1V) 2 100 peak 13412 Weight 0 10000E+01 Volume 0 12726E+03 ppml 1 795 ppm2 1	esal 49 and name HB )) seal 69 and name (HB )) seal 60 and name (HB )111) seal 60 and pask 11572 weight 0 10000E+01 volume 0 27123E-01 ppml 2 634 ppm2 1	cend 49 and hame MP )) real 49 and name HD14) 1 500 peak 1352 weight 0 10000E+01 volume 0 1889EE+02 ppml 2 634 ppm2 1	681d 54 and name HGt ) 681d 57 and name HGl )) 1 900 peak 13652 weight 0.10000E+01 Volume 0 374328+02 ppml 2 837 ppm2	send 63 and neams HEI )) cond 63 and neams HEI ) 2 000 peak 13722 weight 0 10000E+01 volume 0 44471E+02 pgml 5 296 ppm2	8s.4 63 and name HD2t) esid 19 and name HB2 }) 1 800 peak 13752 weight 0 100008+01 volume 0 20264E+01 ppml 1 498 ppm2 1	asad 64 and name Ma. )} 1314 63 and name HIZsh 1 Soo peak 13772 weight 0 100006+01 volume 0 182948+02 ppml 4 951 ppm2 1	and 49 and name HG2\$\) 1.700 peak 13792 weight 0 10000E+01 volume 0 26015E+02 ppml 1 646 ppm2	as.d 56 and name Mt.)   ) 1300 peak limit weight 0 10000E+01 volume 0 14558E+02 ppml 4 656 ppm2	esal 56 and name HBI ))	versid 67 and name HE2 ))  1 20 peak 13842 weight 0 10000B+01 Volume 0 56015B+02 ppml 2 636 ppm2 4	resid 6 and name HG2#)	resid 69 and name NG2*)  **Resid 1a and name HB2 7.  *** 000 peak 1.387 weight 0.10000E+01 volume 0.1435E*01 ppml 1 425 ppmZ 0	remid 12 and name HA }) 2 000 peek 1389 weight 0.10000E+01 volume 0 11539E+01 ppml 5 298 ppm2 1	resid 12 and name HA ))
2.000 peak 12872 weight 0.10000E+01 volume 0.44554E+02 ppml 3.177 ppm2	sasd 54 and amee HG11  ) 2.100 peak 13092 weight 0 100006+01 volume 0 51666E+02 ppm1 1 288 ppm2 1	and sname H2 )} and sname H2 )} peak 13112 weight 0 10000E+01 volume 0 10760E+03 ppml 2 486 ppm2	as4 72 and name Hall) 2 100 peak 13122 weight 0 10000E+01 volume 0 13268E+03 ppm1 2 583 ppm2 5	baid 46 and name HB1 )) 591d 38 and name HG2*) 2 000 peak 13512 waight 0 100008+01 volume 0 45934E+02 ppml 3 275 ppm2 0	"BPD" and resatd 22 and name Hbk ); "BPD" and resatd 22 and inneme HD24] 2.400 2.400 peak 13202 weight 0 10000E+01 volume 0 66016E+02 ppm1 4 607 ppm2	esid 56 and name esid 116 and name	eard 10 and mame M012)) 1000 park 13312 weight 0 100008+01 volume 0 187788+03 ppml 1 548 ppm2	and name #13.1) and name #21.1) peak 13332 weight 0 1000005+01 volume 0 34390E+03 ppm1 1 648 ppm2 2	eaid 55 and hame HG1V) eaid 56 and hame HG1V) 2 100 peak 13412 Weight 0 10000E+01 Volume 0 12726E+03 ppml 1 795 ppm2 1	31D " and resal 40 and name HB )   STO " and rease HB )   STO " and reads 50 and name HB )   STO " and reads 60 and name HOILI)   STO " and reads 60 and name HOILI)   STO " and reads for the HOILING STORT OF THE S	ausid 49 and name HB )) aesid 50 and name HD4) 1 500 pank 1362 and answerght 0 10000E+01 volume 0 1889EE+02 ppml 2 634 ppm2 1	681d 54 and name HGt ) 681d 57 and name HGl )) 1 900 peak 13652 weight 0.10000E+01 Volume 0 374328+02 ppml 2 837 ppm2	send 63 and name [HJ]) cond 68 and name [HJ]) 2 000 peak 13732 weight 0 10000E+01 volume 0 44471E+02 ppml 5 296 ppm2	8s.4 63 and name HD2t) esid 19 and name HB2 }) 1 800 peak 13752 weight 0 100008+01 volume 0 20264E+01 ppml 1 498 ppm2 1	asad 64 and name Ma. )} 1314 63 and name HIZsh 1 Soo peak 13772 weight 0 100006+01 volume 0 182948+02 ppml 4 951 ppm2 1	aesd 49 and name HG14) end 50 and name HG24) 1 700 peak 13792 weight 0 10000E+01 Volume 0 26015E+02 peal 1 646 ppm2	as.d 56 and name Mt.)   ) 1300 peak limit weight 0 10000E+01 volume 0 14558E+02 ppml 4 656 ppm2	on thanse [82]) and name [82]) peak 13812   0 10000E+01 volume 0 92421E+02 ppml 2 685 ppm2 3	versid 67 and name HE2 ))  1 20 peak 13842 weight 0 10000B+01 Volume 0 56015B+02 ppml 2 636 ppm2 4	resid 6 and name HG2#)	<pre>ID = and reasd 69 and name HG2#) InD = and reast 18 and name HB2   5 500</pre>	"SEP: and resid 12 and hame MA )) "SEP: and resid 12 and hame MAS!" "SEP: and resid 14 and hame MAS!" "SEP: and resid 14 and hame MAS!" "SEP: and resid 14 and hame MAS!" "SEP: and resid 12 and sep 200 peak 138 be suight 0.10000E*01 volume 0 11539E*01 ppm1 5 298 ppm2 1	and name HA. )) and name HDL*)

7.496	1 495	1 562	1 645	0 758	7 632	2 227	2 209	2.819	4 9 0		600 6		7.511	7 634	5 444	7 053	3.576	7 790	3 069	7 719	1 319
3.524 ppm2	3 522 ppm2	3 621 ppm2	3 620 ppm2		3 134 ppm2	4 008 ppm2	3 125 ppm2	5 589 ppm2	3 374 prim2				4.556 ppm2	4 558 ppm2	4 804 ppm2	3 676 ppm2	4 462 ppm2	4 462 ppm2	4 903 ppm2	4 807 ppm2	3.127 ppm2
0.47079E+02 ppm1	0 45471E+02 ppm1	0 59473E+01 ppml	0.72449E+01 ppm1 0.78759E+03 ppm1	176478+02	0 47985E+02 ppm1	0 14266E+02 ppml	0 13986E+02 ppml	0 11894E+02 ppm1	0 22870E+03 prm1	62256E+03			0 63095E+03 ppml	0 10621E+03 ppm1	0 15155E+01 ppm1	0.99455E+02 ppml	0 47084E+03 ppm1	0 16966E+03 ppm1	0.43323E+03 ppm1	0 15398E+03 ppm1	0 220258+02 ppml
0.1g000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0.10000E+01	0 10000E+01 volume	0 10060E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01	0 100008+01		0 10000E+01 volume	0,10000E+01 volume	0 10000B+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0.10000E+01 volume	0.10000B+01 volume	0 10000E+01 volume
O peak 16312 weight 9 and name HEI )}	and name peak 16382 and name	and name peak 16422 and name and name	peak 16432 and name and name peak 16492	and hame and name peak 16502	and name and name peak 16612	and name and name peak 16662	and name peak 16672	and name peak 16682	and name HB1 })  and name HB2 })  and name HB2 })  and name HB2 })	and name and name peak 16842	and name and name	and name	resid 106 and name HA }) resid 106 and name HD* } 1.200 peak 16892 weight	resid 106 and name HA }) resid 106 and name HE* } 2 200 peak 16902 weight	resid 57 and name HA )) resid 36 and name HA )) 0 000 peak 16932 weight	os and name HB2 )) and name HE% ) peak 16972 weight	2 and name HA )) 7 and name HB1 )) 9 peak 17032 weight	and name HA )) 2 and name HH2 )) 3 peak 17072 weight	and name and name peak 17192	7 and name HA )) s and name HD* ) peak 17342 weight	34 and name HB2 )) 102 and name HD1*) 600 peak 17352 weight 34 and name HB2 )) 102 and name HB2 )
3.100 2.000 2} "BrD " and resid 19	aegid "BrD " and resid 63 3 500 3.100 2 000 1 (16422) ( segid "BrD " and resid 66	"BrD " and resid 69 4 900 0 600 2} "BrD " and resid 66 "BrD " and resid 63	4 700 4 700 0.800 (1 {16692} 8 (1 8 6 9 9 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8	{16502} eegid "BrD" and reald 96 eegid "BrD" and reald 86 eegid "BrD" and reald 86 f.co.	6egid "BrD " and resid 96   8egid "BrD " and resid 96   3 400   2 900   2 100   {16662}	segad "BrD" and resid 96 segad "BrD" and resid 99 4 200 4 200 1.300 1 [16672]	segid "BrD " and resid 99 4 200 4 200 1 300 [16682]	BrD and resid	segid "BrD" and resid 53 {16792} and resid 59 segid "BrD" and resid 95 segid "BrD" and resid 85 5 700 1800 1800	rD and rD and	} "BrD " and "BrD " and 4 100	"BrD " and	"BrD " and "BrD " and 1 200	"BrD " and resid 10 "BrD " and resid 10 2 200 2 200	( leys2) ( segid "BrD " and resid 5' ( segid "BrD " and resid 3'	1 (157/4) 1 (16914 "BYD " and resid 106 6691d "BYD " and resid 82 3 000 2 200 7 2 200 pc	11/03/2 segid "BrD" and resid 67 regid "BrD" and resid 67 2 400 1 400 1 400	(17072) segid "BrD " and resid 95 segid "BrD " and resid 32 2.800 2.000 2.000	(17192) segid "BrD" and resid 20 segid "BrD" and resid 23 2,400 1 400 1.400	(17342) 8egid "BrD " and reald 97 8egid "BrD " and reald 96 2 800 2.000 2.000	esid esid esid
3.500 ASSI (1638) (( segid	ASSI (1642)	( segid "E	4 700 ASSI {16495 (( segid (( segid 2 200	ASSI {16502} ({ megid "E ({ megid "E ({ megid "E	ASSI [1001] ( 6egid ( 6egid	(( segid "E ( segid "E ( 200 ASSI (16672)	( segid "S ( segid "S 4 200 ASSI {16682} ( segid "B	( segid ( seed) ( seed) ( seed)	( segid ASSI ( segid ( segid ( segid ( segid 2 700	ASSI (16842) (( segid "E (( segid "E 2 200	ASSI {16862} {( segid "B; { segid "B; 4 100	OR {16882} (( segid (( segid () segid	( segid ( segid ( segid	( segid " ( segi	ASSI (16932 (( segid ( segid 5 500	Taritation (1997)	ASSI (17032 (( segid ( segid 2 400	ASSI (17072) (( segid "B (( segid "B ( ) segid "B		ASSI (17342) (16914 (19	1 (1352) (1752) (1752) (17352) (17352) (186914) (186914) (186914) (186914)
1 075	7 934																				
		7 933	1 571	2 312	1 693	1 474 2 206		1 897		7 827	3 900	1 652	8.022	2.367	866 9	3 148	3 149	2 863	2 884	2 605	1 571
3 275 ppm2	3 276 ppm2	5 077 ppm2 7 933	4 165 ppm2 1 571	3 374 ppm2 2 312	572 ppm2 1		Den Co	573 ppm2 1	670 ppm2 2		4 606 ppm2 3 900	3 815 ppm2 1 652	3 670 ppm2 8.022	5 148 ppm2 2.367							4 999 ppm2 1 571
275 gbw1 3 275	276	077 ppm2 7	165 ppm2 1	374 ppm2 2	19603E+02 ppml 3 572 ppm2 1	572 ppm2 1	print 3 672 ppm2 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ppm1 3 670 ppm2 2	673 ppm2 7	606 ppm2 3	815 ppm2 1	3 670 ppm2	148 ppm2	ppm2 6	90000E+01 ppml 3 669 ppm2 3	438258+02 ppm1 3 522 ppm2 3	ppml 3 669 ppm2 2	ppm1 3 522 ppm2 2	ppm1 3 522 ppm2 2	4 999 ppm2 1
3 275	ppml 3 276	71990E+02 ppm1 3 077 ppm2 7	ppml 4 165 ppm2 1	Ppm1 3 374 ppm2 2	+01 volume 0 19603E+02 ppml 3 572 ppm2 1	ppm. 3 572 ppm2 1.	Volume 0 127538+03 ppm1 3 672 ppm2 2	volume 0 31328E+02 ppm1 3 573 ppm2 1	volume 0 86957E+02 ppml 3 670 ppm2 2	63746E+D3 ppm1 3 673 ppm2 7	ppml 4 606 ppm2 3	ppml 3 815 ppm2 1	670 ppm2	30921E+02 ppml 5 148 ppm2	38285E+02 ppml 3 522 ppm2 6	ppml 3 669 ppm2 3	Volume 0 43825E+02 ppml 3 522 ppm2 3	3 669 ppm2 2	3 522 ppm2 2	3 522 ppm2 2	ppm2
and name HB1 )) and name HO1%) peak 15012 weight 0 10000£+01 volume 0 20055E+02 ppml 3 275	and name HB1 )) and name HDt ) peak 15032 weight 0 10000E+01 volume 0.96365E+01 ppml 3 276	and name HB2 ) and name HD4 ) peak 15042 weight 0 100005+01 volume 0 71990E+02 ppml 3 077 ppm2 7	and name HA )) and name HQ31) peak 15052 weight 0 100006+01 volume 0.388685+02 ppml 4 165 ppm2 1 and name HB2 ))	and leave HB3 ) peak 15032 weight 0.10000E+01 volume 0 15966E+03 ppml 3 374 ppm2 2 and name HB2 )) and name HB2 ))	peak 15122 weight 0 10000E+01 volume 0 19603E+02 ppml 3 572 ppm2 1 and name HE1])	peak 15192 weight 0 10000E+01 volume 0 11031E+02 ppm1 3 572 ppm2 1           and name HB2 1)           and name HB2 10           beak 13402 weight 0 10000E+01 volume 0 10551P+03 nmm1 1 472 nmm2 2	and name HB1) sak lada name HB1 ) sak lada name HB4 ) sak lada washir (0 100008-03 volume (0 127538-03 prm1 3 672 prm2 2	and name HB2 )) And name HB2 )) And the HB2 ) And the HB2	HRB1 )) HG2 )) Weight 0 10000E+01 volume 0 86957E+02 ppml 3 670 ppm2 2	HB1 )) HBr ) weight 0 100008+01 volume 0 63746B+03 ppml 3 673 ppm2 7	and name HA 1) and name HA 1) paaK 15812 weight 0 100006+01 volume 0 67333E+02 ppml 4 606 ppm2 3	and hamme HD14) and hamme HD14) peak IS882 weight 0 10000E+01 volume 0 19033E+02 ppml 3 815 ppm2 1	HB1 )) HZ )) Weight 0 10000E+01 volume 0 26167E+03 ppml 3 670 ppm2	and name [13] )} and name [15] ) peak 1662 weight 0 10000E+01 volume 0 20921E+02 ppml 5 148 ppm2	and name (801 ) and name (801 ) peak 1662 weight 0.10000E+01 volume 0 38285E+02 ppml 3 522 ppm2 6	and name HD1 )) and name HD1 )) peak 16112 weight 0 100006.01 volume 0 900008.01 ppml 3 669 ppm2 3	and hame HB2 )) and hamm HB1 )) speak isize medgic 0 10000E+01 volume 0 43825E+02 ppml 3 522 ppml 3	and name HB1 )) And name HB1 )) Ppeak 1612 exapt: 0 10000E+01 volume 0.35724E+02 ppml 3 669 ppm2 2	and name HB2 )) and name HB1 )) peak 1615 exaght 0 10000E+01 volume 0.44106E+02 ppml 3 522 ppm2 2	and hames NR2 )) and name NR2 )) peaks force season to 1000000+01 volume 0 16622E+02 ppm1 3 522 ppm2 2	and name HA )) and name HG24) and name HG24 and 16212 velght 0 10000E+01 volume 0.71276E+02 ppm1 4 999 ppm2 1 and name HD4 )) and name HD4 )
and name HB1 )) and name HO1%) peak 15012 weight 0 10000£+01 volume 0 20055E+02 ppml 3 275	46 and name HB1 )) 47 and name HDt ) 100 peak 15012 weight 0 10000E+01 volume 0.96365E+01 ppml 3 276	sord 46 and name HB2 )) sord 47 and name HB4 ) 2.300 peak ISO42 weight 0 10000S+01 volume 0 71990E+02 ppml 3 077 ppm2 7	HAA ), (COLRA), weight 0 lococe.ol volume 0.386686.02 ppml 4 l65 ppm2 1 HB2 ))	cend 31 and hame HBF) 2 000 peak 15092 weight 0.10000E+01 volume 0 15966E+03 ppml 3 374 ppm2 2 2 cend 07 and name HBL)	1 500 peak 15182 weaph: 0 10000E+01 volume 0 19603E+02 ppml 3 572 ppm2 1 1 500 peak 15181 weaph 1) 1 500 peak 15181 was held 67 and name HG2 )	peak 15192 weight 0 10000E+01 volume 0 11031E+02 ppm1 3 572 ppm2 1           and name HB2 1)           and name HB2 10           beak 13402 weight 0 10000E+01 volume 0 10551P+03 nmm1 1 472 nmm2 2	TD and resid 22 and name HB1 )	cesd 02 and name HB2 )) sesd 02 and name HB2 )) i 900 peak 1552 wealth 0 10000Ek01 volume 0 3132EF02 pem1 3 573 ppm2 1	ceald 107 and name HB1 ))  read 103 and name HB2 ))  2 400 peak 18592 weight 0 10000E+01 volume 0 86957E+02 ppml 3 670 ppm2 2	east 407 and name HBL)   1200 peak 15712 weight 0 10000E+D1 volume 0 63746E+D3 ppml 3 673 ppm? 7	and name HA 1) and name HA 1) paaK 15812 weight 0 100006+01 volume 0 67333E+02 ppml 4 606 ppm2 3	smed 15 and hame #D11) smid 63 and hame #D11) 1 500 peak 15882 weight 0 100006+01 volume 0 190315+02 ppml 3 815 ppm2 1	send 82 and name HB1); eqd 107 and name HB )); 1700 peak 15932 weight 0 10000E+01 volume 0 26167E+03 ppm1 3 670 ppm2	absid 60 and name H2 )) abid 70 and name H2 )) 1500 peak 16052 weight 0 10000E+01 volume 0 20921E+02 ppml 5 148 ppm2	DP and resid 5 at and name HE2.)  70 " and resid 7 and miss HO3 1 in 10000E+01 volume 0 38285F-02 ppml 3 522 ppml 6 3 200  8 200 " HO0 peak 1665E weight 0.10000E+01 volume 0 38285F-02 ppml 6 6 ml merching ppml 6 ml merching ppml 9 ml mer	PD' and reals (5 and name HB1) TD' and reals (2 and name HB1) TD' and reals (2 and name HB1) TD' and reals (2 and name HB1)	Pro * and *ceals de and name HEJ )) 110 * and read d 2 and name HEJ )) 2 * and read d 2 and name HEJ )  2 * 100 * 2 000 peak isize weight 0 100005*01 volume 0 438256*02 ppml 3 522 ppml 3	tD " and reald 68 and name HB1 )) rp " and real d and name HB1 )) 3 200 1.900 pank 16122 He12 ) 3 200 1.900 pank 16122 He12 )	DED's and read 66 and name HB2 )) IND 's and read and name HB2 ) IND 's and read object NISTA (10000E+01 volume 0.44106E+02 ppml 3 522 ppm2 2 IND 'DO poek' NISTA 9819H (10000E+01 volume 0.44106E+02 ppml 3 522 ppm2 2	D' and read 66 and hame NR2 )) 10 and read 67 and name NR2 )) 11 and read 67 and name NR2 )) 12 and read 68 and name NR2 () 100008-01 volume 0 166228-02 ppm1 3 522 ppm2 2	ITD " and reaid 88 and name HA ))  10. * and reaid 48 and name MC21)  2 600 2. 300 pack #821.9 * each to 10000E+01 volume 0.71276E+02 ppml 4 999 ppm2 1  2 600 2 and reaid 88 and name HB1 ))  ITD " and reaid 88 and name HD1 )

# CHELDEL - CEECO

1 996	4 972	3.248		3 101	1 539	938	2 460	7 552		4 826	4 427	3 597	3 003	906	2 824	969 0	1 425		1 327	1 547	1.914	1.865	1. 986
3 523 ppm2	2 782 ppm2	2.762 ppm2		2 782 ppm2	2 782 ppm2	2 782 ppm2	781	3 226 ppm2		2 634 ppm2	2 634 ppm2	2 634 ppm2	2 634 ppm2	2 634 ppm2	2.634 ppm2	2 634 ppm2	2.634 ppm2		2 634 ppm2	2 635 ppm2	2 635 ppm2	z 635 ppm2	634
0 23045E+02 ppm1	0 18338E+03 ppm1	0 50813E+02 ppml		0.11214E+03 ppm1	0 15609E+03 ppm1	0.43055E+03 ppml		0 50782E+01 ppml		0.10304R+03 ppml	0 51911E+02 ppm1	0 13576E+03 ppml	0 11929E+03 ppm1	0 33115E+02 ppm1	0 10446E+D4 ppm1	0.60943E+01 ppml	0 27797 <u>6</u> +03 ppm1		0.15408E+03 ppml	0.36651E+02 ppm1	0 79723E+01 ppm1	0.40230E+02 ppm1	ទ
4 0.10000E+01 volume	) 10000E+01 volume	0 10000E+01 volume		0 10000E+01 volume	) 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume		0 10000E+01 volume	0 10000E+01 volume	0.10000E+01 volume	10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume (	0 10000E+01 volume	10000E+01 volume		10000E+01 volume (	10000E+01 volume (	0 10000E+01 volume (	100008+01 volume	volume
resid 75 and name HG1 )) resid 113 and name HBt ) 1 600 peak 18142 weight	( segid "BkD" and reald 55 and name HB1) ( segid "BkD" and reald 60 and name HB1) 2 800 2 000 peak 18282 weight 6 ASSI (18102)	send 35 and name HE*) send 59 and name HG2 )) 2 100 peak 18302 weight	and name	old 35 and name HEt ) old 34 and name HB2 )) 2 200 peak 18312 weight		(18362) aegid "BkD" and resid 35 and hame HE%) segid "BkD" and resid 57 and name HB1) 2 400 1 400 1 400 peak 18362 weight	(18382) sectid "BED" and resid 35 and name HE#) sectid "BED" and resid 26 and name HBI)) 2 500 1 600 1 600 peak 18382 weight	resid 59 and name HG1 )) resid 74 and name HE% ) 0 500 peak 18492 weight	resid 59 and name resid 74 and name	resid 75 and name HE* ) resid 17 and name HB }) 2 200 peak 18542 weight	eegid "BrD " and resid 75 and name HEV ) segid "BrD " and resid 110 and name HA ) 3.400 2 900 2 100 peak 18642 weight [1,1662]	aegid "BrD " and resid 75 and name HEV ) segid "BrD" and resid 74 and name HB1 )) 2.900 2 100 2 100 peak 18662 weight [1.868]	( segid "BrD" and reald 75 and name HEt ) (( segid "BrD" and reald 74 and name HB2 )) 3.000 2 200 2 200 peak 18682 wasght 0 ASSI 1.8723	segid "BrD" and resid 75 and name HE*) segid "BrD" and resid 75 and name HB1)) 3 700 3 400 1 800 peak 18722 weight (18722)	resid 75 and name HE4 } resid 75 and name HS2 }} 2 400 peak 18732 weight	segid "BrD " and reaid 75 and name HE*) segid "BrD " and reaid 78 and name HD2*) 4 900 4 900 0 600 peak 18762 weight (1872)	segad "BrD" and resid 75 and name segad "BrD" and resid 14 and name 2 600 1 700 1.700 peak 18772 8772)	1 "BrD " and resid 75 and name 1 "BrD " and resid 14 and name 2)	( pegud "BED" and resald 15 and mame HEB ) ( pegud "BED" and resald 115 and name HD1%) 2.800 2.000 peak 18782 weight 0	ASS1   18812  ( egyld "BrD" and resid 75 and name HEF ) ( egyld "BrD" and resid 116 and name HO113) 3 600 3 200 1 900 peak 18812 weight 0	110004   11004	ASSI	Tread 75 and name HEt ) 1 read 113 and name HEt ) 1 800 peak 18882 weight 1 read 75 and name HEt )
1 317		7 774	4.907	7 903		407.7	7 263		4 452	4 020	3 654	4 444	2 304	7 707	4 443	555 5	7.699	4 662	2.482		1 327	1.661	2 165
4 134 ppm2 1 317		3 122 ppm2 7 774	5 544 ppm2 4.907	0 759 ppm2 7 903		zwdd	763 ppm2 7	ppm2	ppm2		0 859 ppm2 3 654	-0 324 ppm2 4 444	2 782 ppm2 2 304	ppm2	ppm2	-0 176 ppm2 4 444	. 7.		3 227 ppm2 2.482		3 226 ppm2 1 327	3.226 ppm2 1.661	3 522 ppm2 2 165
0.12013E+02 ppml 4 114 ppm2 1		0 24806E+02 ppml 3 122 ppm2 7	544 ppm2	759 0000 27		7 Dbw 7 0	0 763 ppm2 7	15950E+03 ppml 0 760 ppm2 7	ilbijektuj ppml o 859 ppml q	ppm2 4	ppm2 3	324 ppm2 4	42246E+02 ppml 2 782 ppm2	21155E+02 ppml 2.190 ppm2	26579E+02 ppml 1 055 ppm2 4	176 ppm2 4	0 30273E+02 ppml -0 174 ppm2 7.	524 ppm2 4	ppm2		ppm2 1	ppm2	3 522 ppm2 2
0 100008+01 volume 0.12013E+02 ppm1 4 114 ppm2 1		ppm1 3 122 ppm2 7	ppml 5 544 ppm2	0 10000E+01 volume 0 45996E+02 pom1 0 759 pom2 7		. 32263F*U3 ppm1 U 161 ppm2 V	0.48682E+03 ppml 0 763 ppm2 7	0 159508+03 ppml 0 760 ppm2 7	Volume o iteid8+0i ppmi o 859 ppm2 4	\$1004E+02 ppml 0 859 ppm2 4	9pm1 0 859 ppm2 3	ppm1 -0 324 ppm2 4	volume 0 422465+02 ppml 2 782 ppm2	volume 0 211555+02 ppml 2.190 ppm2	0 26579E+02 ppml 1 055 ppm2 4	22889E+02 ppml -0 176 ppm2 4	10000E+01 volume 0 30273E+02 ppml -0 174 ppm2 7.	74474E+02 ppml 3 524 ppm2 4	26930E+03 ppml 3 227 ppm2		ppml 3 226 ppm2 1	ppm1 3.226 ppm2	ppm2 2
0.12013E+02 ppml 4 114 ppm2 1	resid 34 and name resid 102 and name	readid 34 and hamme HER ) 1 1700 peak 17452 weight (0 10000E+01 volume (0 24806E+02 ppml) 3 122 ppml 7	0 81169E+01 ppml 5 544 ppm2	Volume 0 45996E+02 ppm1 0 759 ppm2 7	resid 81 and name HG2t)	a out peut 1391 weight o touduards dustine o 322857403 ppms o 761 ppms 7 out peut 1391 out ppms 1791	peak 17623 weight 0 10000E+01 volume 0.48662E+03 ppml 0 763 ppm2 7 and name HGE 1, and name HGE 1	0 15950E+03 ppml 0 760 ppm2 7	z zou pear 1712 waign: u loudoekul volume u lieliktul ppmi. u 839 ppmi. a i reeld 33 and name HB1.)	paak 17732 weight 0 10000E+01 volume 0 51004E+02 ppml 0 659 ppm2 4 and name HOL)) and name HOL))	Peak 17742 Weight 0 100000E+01 Volume 0 94715E+02 ppm. 0 859 ppm2 3 and name HG2 ) and name HA ) )	2 loo peak 17762 weight 0 looo0E-01 volume 0 51516E+02 ppml -0 324 ppm2 4 resid 31 and name HD1)	2 000 peak 17762 weight 0 100008-01 volume 0 42246E+02 ppml 2 762 ppm2 resaid 13 and name H78 )	1.600 peak 17902 weight 0 10000E+01 volume 0 21155E+02 ppml 2.190 ppm2 reeid 33 and name HB1 ))	1 700 peck 19953 weight 0 10000E+01 volume 0 26579E+02 ppml 1 055 ppm2 4 event 313 and name HB2 )	1 600 pask 17962 weapht 0 100008-01 Volume 0 228898-02 ppml -0 176 ppm2 4 seat 33 and name HR2 )	1 800 peak 17982 weight 0 10000E+01 volume 0 30273E+02 ppml -0 174 ppm2 7. eps.d 7 and name HGL)	2.300 peak 18012 weight 0 100008+01 volume 0 744748+02 ppml 3 524 ppm2 4 read 55 and name RG1 )	res.4.0.9 Ailt later no.4.1/ 1700 per 1852 weight 0.10000E+01 volume 0.28930E+03 ppml. 3.227 ppml2 von.4.59 and mass NO.3.1/	and name	OG peak 18102 weight 0 10000E+01 volume 0 10857E+02 ppml 3 226 ppm2 1 59 and name HG2 ))	resist 22 and name HUL4)  1.400 peak 18112 acidyt 0 10000E+01 volume 0.16631E+02 ppml 3.226 ppml2 resid 59 and name HOL1))	rea.d 22 and name HD1f) rea.d 13. and name HD1 1) 2 000 peak 18122 weight 0 100008.01 volume 0.471428.02 ppml 3 522 ppm2 2

6	r 0 0	2 507	4 963	1 783		1 432	5 143	2 327	7 903	7.701	7 259	\$ 005	4 948	2.613	2.784	7 901	1771	7 073	7 259	4 950	1.922	1 222	2 670
C 043		2 093 ppm2	2 092 ppm2	2 092 ppm2		Z 092 ppmz	1 500 ppm2	4 656 ppm2	2 190 ppm2	2 190 ppm2	2 190 ppm2	2 190 ppm2	2 190 ppm2	2 190 ppm2	2 092 ppm2	4 459 ppm2	4 459 ppm2	4 457 ppm2	4 459 ppm2	4 458 ppm2	4 458 ppm2	4.903 ppm2	4 903 ppm2
1 mon 50+3776+31 0	1	21436E+03 ppm1	15327E+03 ppm1	32487E+03 ppml		35020E+02 ppml	16681E+03 ppml	95067E+02 ppml	65240E+03 ppml	50164E+03 ppml	36039E+03 ppm1	92786E+03 ppm1	10441E+03 ppm1	10256E+03 ppm1	45000E+02 ppm1	0.26558E+03 ppml	21467E+03 ppml	71395E+02 ppml	0 15492E+03 ppm1	16591E+03 ppm1	24667E+03 ppm1	0.35803E+02 ppm1	48759E+02 ppml
• • • • • • • • • • • • • • • • • • •		10000E+01 volume 0	10000E+01 volume 0	0 10000E+01 volume 0		10000E+01 volume 0	10000E+01 volume 0	0 10000B+01 volume 0	0.10000E+01 volume 0	10000E+01 volume 0	10000E+01 volume 0	10000E+01 volume 0	10000E+01 volume 0	0 10000E+01 volume 0	10000E+01 volume 0	0 10000E+01 volume 0	10000E+01 volume 0	100008+01 volume 0	10000E+01 volume 0	10000E+01 volume 0	0.10000E+01 volume 0	10000E+01 volume 0	10000E+01 volume 0
76 and name HB*) 80 and name HB2))	76 and name HBt )	and name HB% ) and name HB2 )) peak 19502 weight 0	76 and name HBt ) 77 and name HA )) 00 peak 19522 weight 0	76 and name HBV ) 51 and name HBZ )) 00 peak 19552 weight	76 and name HB% ) 51 and name HG2 ))	d 76 and name HBt ) d 116 and name HG24) 900 peak 19572 weight 0 1	and name HD2%) and name HA )) peak 19582 weight 0	and name HA )) and name HG1 )) peak 19632 weight	and name HB* ) and name HZ )) peak 19642 weight	and name HB% ) and name HE% ) peak 19652 weight 0	and name HB% ) and name HD% ) peak 19672 weight 0	99 and name HBt ) 85 and name HA )) 00 peak 19692 weight 0	and name HB* ) and name HA )) ak 19702 weight 0	resid 99 and name HB% ) resid 103 and name HG1 )) 2 200 peak 19752 weight 0 1	and name HBt ) and name HB1 )) peak 19772 weight 0	and name HA )) and name HZ )) peak 19792 weight	99 and name HR )) 34 and name HEt ) 00 peak 19802 weight 0	99 and name HA }) 82 and name HE* } 00 peak 19812 weight 0	99 and name HA )) 82 and name HD% ) 00 peak 19822 weight 0	and name HA   ) and name HA   ) eak 19832 weight 0	99 and name HA  ) 103 and name HB2  ) 00 peak 19842 weight	() )) (G2%) (e1ght 0	A )) B1 )) e1ght 0
( segid "BrD " and resid 76 (( segid "BrD " and resid 80		ASSI (19502) ( seegld "BYD" and resid 76 ( seegld "BYD" and resid 80 2 7000	ASSI (19522) ( segud "BYD" and resid 76 ( segud "BYD" and resid 77 2.800 2.000 2.000				segid "BrD " and segid "BrD " and 2 800 2 000 [19632]	Regid "BrD " and resid 76 Regid "BrD " and resid 80 3 100 2 400 2 400 [19642]	6egid "BrD " and resid 99 ( segid "BrD " and resid 34 2 200 2,200 2,300	segid "BrD " and resid 99 segid "BrD " and resid 34 2.300 1 300 1 300	aegid "BrD " and reaid 99 segid "BrD " and reaid 82 2.500 1 600 1.600	(19692) segid "BrD " and resid 99 segid "BrD " and resid 85 3 100 2 400 2 400	6egid "BrD " and resid 99 6egid "BrD " and resid 100 8egid "BrD " and resid 100 1000 2 200 pc	(19752) segid "BrD " and segid "BrD " and 3.000 2 200	segid "BrD " and resid 76 segid "BrD " and resid 79 segid "BrD " and resid 79 5.500 3 100 2 000	6egid "BrD " and resid 99 6egid "BrD " and resid 34 6egid "BrD " and resid 34 2 600 1 700 1 700	( 19802) ( segid "BrD " and resid 99 segid "BrD " and resid 34 segid "BrD " and resid 34	segid "BrD " and resid 99 segid "BrD " and resid 82 3.200 2 600 2 300	(1982) segid "BrD " and resid 99 segid "BrD " and resid 82 2.800 2.000 2.000	[19832] segid "BrD " and resid 99 segid "BrD " and resid 100 2.800 2.000 p	[19842] segid "BrD " and resi aegid "BrD " and resi 2 600 1 700 1	{19882} aegid "BrD " and eegid "BrD " and 3.600 3 200	[19902] segid "BiD " and segid "BiD " and 3 400 2 900 [19912]
	g	35 K	ASSI (	SS .	A SE	d d	) ISSR	))	))	!	7004	ASSI ({	ASS	ASSI ( ( (		Tone	ASSI ((		ASSI ((	ASSI ((	Togge	ASSI ( ( (	ASSI
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			2 647 ppm2 4.289	2 842 ppm2 5 444	5 001 ppm2 7 893	, can	S47 DDm2 7	544 brom 2			5 544 ppm2 0 799		1 697 ppm2 1.148	1.697 ppm2 2.032	1 697 ppm2 1 790	2 289 ppm2 1 832			2 289 ppm2 3.427	2 289 ppm2 3 134	2 289 ppm2 4 582	2 289 ppm2 7.803	
1 2 636 ppm2 2	ppm1 2 635 ppm2 2	292558+02 ppml 2 636 ppm2	ppml 2 847 ppm2	. 2 842 ppm2 5	1 5 001 ppm2 7	A 001	5 547 ppm2 7	nren] 6 K44 nom2 2	7 444 Trum		42319E+02 ppml 5 544 ppm2 0	. 1 697 gpm2 2	1 697 ppm2	1 1.697 ppm2	1 697 ppm2 1	ppm1 2 289 ppm2 1	ppml 2 289 ppm2 2	1 2 289 ppm2 3	1 2 289 ppm2	ppml 2 289 ppm2 3	1 2 289 ppm2 4	ppml 2 289 ppm2	2 092 ppm3 2
1 2 636 ppm2 2	0 35880E+03 ppm1 2 635 ppm2 2	0 29255E+02 ppml 2 636 ppm2	0 68763E+02 ppml 2 847 ppm2	0.28694E+02 ppm1 2 842 ppm2 5	1 5 001 ppm2 7	A 001	5 547 ppm2 7	nren] 6 K44 nom2 2	0 97301540 mm 1 5 844 mm 2		100008+01 volume 0 423198+02 ppml 5 544 ppm2 0	0.35927E+02 pgml 1 697 ppm2 2	0 31463E+01 ppml 1 697 ppm2	0 60793E+02 ppml 1.697 ppm2	1 697 ppm2 1	ppm1 2 289 ppm2 1	ppml 2 289 ppm2 2	0 37768E+03 ppm1 2 289 ppm2 3	1 2 289 ppm2	ppml 2 289 ppm2 3	0 871838.02 ppml 2 289 ppm2 4	0 44223E+02 ppml 2 289 ppm2	0 66817E+02 ppml 2 092 ppm2 2
HG )) weight 0 10000E+01 volume 0 17764E+03 ppml 2 636 ppm2 2	HEF ) WHREN ) WHREN 0 10000E+01 Volume 0 358880E+03 ppml 2 635 ppml 2	HBE ) HBB )) weight 0 10000E:01 Volume 0 29255E+02 ppml 2 636 ppm2	and name HB2 )] and hame HD1) pack 1822 weight ( 010000E+01 volume 0 68753E+02 ppml 2 647 ppm2	0.10000E+01 volume 0.28694E+02 ppm1 2 842 ppm2 5	and name HA )) peak 1907 wearth c 01000E#01 volume 0 98699E#02 ppml 5 001 ppm2 7	and name (A) )  And same horizon (A) is a second name (A) is a second na	and name (N.) ) peak 1317a (H.) 1 peak 1317a (H.	And hance (A.) )  work 19 His Control of John Control of State Control of	)) )) (b) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d		)) 14) 19) 19) 19) 19) 19) 19) 19) 19) 19) 19	)) ( )) cght o 100006+01 volume 0.359276+02 ppml 1 697 ppm2 2	0 10000E+01 volume 0 31463E+01 ppm1 1 697 ppm2	and name HB# ) and name Age ( 0.10000£-01 volume 0 60791E+02 ppml 1.697 ppml	and name HEt ) and name HE ) and name HE ) 10 100008-01 volume 0 120138-03 ppml 1 697 ppml 1	and name HBV ) and name HBV ( 10000E+01 volume 0.68019E-02 ppml 2 289 ppml 1	and name HB4 ) and hame HB4 ) 2 2 2 9 ppml 2 2 2 2 9 ppml 2	and hame HBY ) and name HBY ) pand 2.289 ppm2 3 ppm1 3.289 ppm2 3	and name NB4 ) and name NB4 ) and name NB4 ) peak 18372 weight ( ) 10000E+01 volume 0 30400E+03 ppml 2 289 ppm2	and hame HB1 ) And anae HB2 ) peak 1393 weight 0 10000E-01 volume 0 14651E-02 ppml 2 289 ppml 3	and name HBt } and name HBt   2 289 ppm2 4 4 130 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	and hame HB# ) and hame HB# ) and lame HB# ) and lame HB# ) peak 1522 weight 0 10000E+01 volume 0 44223E+02 ppml 2 289 ppm2	and name HBt ) and name HBZ )) peak 19482 weight o 10000E-01 volume O 66817E-02 ppml 2 092 ppm2 2
HG )) weight 0 10000E+01 volume 0 17764E+03 ppml 2 636 ppm2 2	and name HEt ) and name HEt ) 10000E-01 Volume 0 35880E-03 ppml 2 635 ppml 2	HBE ) HBB )) weight 0 10000E:01 Volume 0 29255E+02 ppml 2 636 ppm2	BYO " and zead 57 and name HB2 ]) BYO " and zead 37 and name HB2 ]) SY " and zead 37 and name has been seen as a see	0.28694E+02 ppm1 2 842 ppm2 5	esid 31 and name HA ) 2 dou peak 1907 washt c 0 10000E+01 volume 0 98899E+02 ppml 5 001 ppm2 7	and name (A) )  And same horizon (A) is a second name (A) is a second na	D' and resid 43 and name RM ))  10. and resid 43 and name RM )  10. and resid 40 and name RM )  21.700 2.000 peak 19372 weakh 0 100006-01 volume 0.582346-02 poml 5 547 pom2 7	And hance (A.) )  work 19 His Control of John Control of State Control of	)) )) (b) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d		0 100008+01 volume 0 423195+02 ppml 5 544 ppm2 0	)) ( )) cght o 100006+01 volume 0.359276+02 ppml 1 697 ppm2 2	0 31463E+01 ppml 1 697 ppm2	and name HB# ) and name Age ( 0.10000£-01 volume 0 60791E+02 ppml 1.697 ppml	and name H81 ) and name H81 ) 100006-01 volume 0 120136-03 ppml 1 697 ppml 1	0 10000E+01 volume 0.68019E+02 ppml 2 289 ppm2 1	and name HB4 ) and hame HB4 ) 2 2 2 9 ppml 2 2 2 2 9 ppml 2	hifb' and reald 31 and hame HBV ) 110 - and reald 32 and hame HBV ) 1400 - 41400 pask 1940 and hame HBL 0100008.01 volume 0 37768E-03 ppml 2 289 ppml 3	0 10000E+01 volume 0 30400E+03 ppm1 2 289 ppm2	<pre>pp * and reaid 31 and hame HB1 ) pp * and reaid 34 and hame HB2 ) pp * and reaid 34 and hame HB2 (0 10000E+01 volume 0 14651E+02 ppml 2 289 ppm2 3 4 200 1300 pank 1938 vesight (0 10000E+01 volume 0 14651E+02 ppml 2 289 ppm2 3</pre>	and name HBt } and name HBt   2 289 ppm2 4 4 130 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	<pre>ED " and reald 31 and hame HB# ) FD " and reald 34 and hame HB# ) 51.00</pre>	Purp " and reald 76 and name HBM )  12.700

#### CHELCIL CHECK

5.111	7 026	7 920	4 980	1 710	1 711	7 905	2 784	360	3 028					1 327		0 676	2 157	3 907	4.369	4.297	4 753	4 859	7 706
4,656 ppm2	1 648 ppm2	1 651 ppm2	1 649 ppm2	3.175 ppm2	2.633 ppm2									2 979 ppm2		2.979 ppm2	1 795 ppm2	1 796 ppm2	1 797 ppm2	1 796 ppm2	0 760 ppm2	1 056 ppm2	
0.17530E+03 ppml	0 13726E+03 ppml	0.69885E+02 ppml	1,65839E+02	0,12367E+03 ppml	0.11189E+03 ppm1	0 97455E+02 ppm1	11102E+03	55703E+02		47828E+02	35912R+03	43989E+02		0 35593£+02 ppm1		0 11302E+02 ppml	0 436748+02 ppml	0 11856E+02 ppm1	0 21023E+03 ppm1	6	0.12812E+03 ppm1	0.64039E+02 ppm1	0 52778E+02 ppml
.10000E+01 volume	10000E+01 volume	10000E+01 volume	10000E+01 volume	10000E+01 volume	10000E+01 volume	0 10000E+01 volume	volume	volume	volume	volume	amil Cox	volume		10000E+01 volume		10000E+01 volume	10000E+01 volume	0 10000E+01 volume (	10000E+01 volume (	0 10000E+01 volume 0	10000E+01 volume	10000E+01 volume	
peak 20712 and name	resid 82 and name ME\$ ) 2 100 peak 20802 weight 0 resid 25 and name HG2*)	58 and name 68 and name 00 peak 20812	resid 25 and name HG24) resid 31 and name HA }) 2 100 peak 20852 weight 0	resid 62 and name HD1 )) resid 62 and name HB2 )) 2 100 peak 20862 weight 0	resid 62 and name HD2 )) resid 62 and name HB2 )) 2 200 peak 20872 weight 0	and name HB1 )) and name HE% ) peak 20992 weight	and name HG2%) and name HG2 )) peak 21082 weight	and name HB )) and name HG1 )) peak 21142 weight	and name HG2%) and name HG1 )) peak 21192 weight	83 and name 87 and name 100 peak 21202	and name HG1*) and name HD*) neak 21742 weight	and name HG1%) and name HR% ) peak 21322 weight	nd 25 and name	resid 25 and name HB )) resid 102 and name HD14) 1 900 peak 21392 weight 0	nd 25 and name	resid 25 and name HB )) resid 78 and name HD2%) 1 100 peak 21402 weight 0	resid 25 and name HG14) resid 102 and name HG )) 2 000 peak 21422 weight 0	resid 25 and name HGI*) resid 106 and name HBI }) 1 300 peak 21452 weight O	resid 25 and name HG1% resid 21 and name HA )) 1.800 peak 21462 weight 0	and name HG1%) and name HA )) peak 21472 weight	resid 81 and name HG2*) resid 82 and name HA )) 2 100 peak 21562 weight 0	reald 38 and name HG1%) restd 37 and name HA )) 2 200 peak 21582 weight 0	HG14) HD4 ) Weight
2.800 2.000 ASSI {20802} ( segld "BYD " and re:	2 900 2 100 2 900 2 100 20802 8egid "BrD " and	[20812] eegid "BrD" and segid "BrD" and 3.200 2 600	(20852) segid "BrD " and segid "BrD " and 3 400 2 900	{20862} segid "BrD " and segid "BrD " and 2 900 _ 2 100	{20872} segid "BrD " and segid "BrD " and 3 000 2.200	ASSI {20992} ({ segid "BrD " and re- ( segid "BrD " and re- 3 loo 2 400	{21082} segid "BrD " and segid "BrD " and 3 000 2 200	{21142} segid "BrD " and segid "BrD " and 3 400 2 900	ASSI {21192} ( segid "BrD " and re- {{ segid "BrD " and re- 2.100 1 100	ASSI (21202) ( segid "BrD" and resid (( segid "BrD" and resid 3 400 2 900 2	ASSI {21292} { segid "BrD " and re: { segid "BrD " and re: 2 500 2 500	"BrD and "BrD and	OR {21322} ( segid "BrD " and re: (( segid "BrD " and re:	ASS [21392] ({ seq.d "BYD" and res ( seq.d "BYD" and res 3 500 3.200	<pre>( 21392 ) (( segid "BrD " and re:</pre>	({ segid "BrD " and re: { segid "BrD " and re: 4.400 4 400 ASSI {21422}	segid "BrD" and re segid "BrD" and re 3.500 3.100	(*1452) segid "BrD " and re segid "BrD " and re 4 300 4 300	{21462} segid "BrD " and re segid "BrD " and re 2 700 1 800	(21472) segid "BrD " and segid "BrD " and 3 400 2 900	{21562} segid "BrD " and segid "BrD " and 2 900 2.100	{21582} segid "BrD " and segid "BrD " and 3 300 2.700	(SSI {21672} { eegid "BrD " and re- { megid "BrD " and re- 3 400 2 900
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4.419	4,663	1.313	2 442	2 059	0 408	1 319	1 319	1 327	1 224	2 619	2 507	2 214	2 149	0 904	2 271	4 143		805	\$.062	2.019	2 296	2.466	4. 2. 2. 2.
4 903 ppm2	4 903 ppm2	4.899 ppm2	1.991 ppm2	1 994 ppm2	1.993 ppm2	1 993 ppm2	4 409 ppm2	4 854 ppm2	4 542 ppm2	1 747 ppm2	1 747 ppm2	1 747 ppm2	1 747 ppm2	1.747 ppm2	4 903 ppm2	4.656 rams							2 832 ppm2
0 44605E+02 ppml	0 84488E+02 prm1	0 18572E+02 ppml	0 60405E+02 ppml	0 86636E+03 ppml	0.14101E+02 ppm1	0 472595+03 ppm1	0 33630E+03 ppm1	0 76060E+02 ppm1	0 88717E+01 ppm1	0 27619K+03 ppml	volume 0 10098E+03 ppm1	0 46134E+02 ppm1	0 25743E+03 ppml	0 84610E+01 ppml	0.67487E+02 ppm1	0 42217E+02 nbm1			0 513878+02 ppml	0 28354E+03 ppml	0,135966+03 ppml	0 75085E+02 ppml	0 44748E+03 ppml
0 10000E+01 volume	O 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume 0.14101E+02	0 10000E+01 volume 0 47259E+03	0 10000E+01 volume	0 10000E+01 volume 0 76060E+02	0 10000E+01 volume 0 88717E+01	0 10000E+01 volume 0 27619E+03	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 100068+01 volume 6 427178+02		amn Too	0 10000E+01 volume	0 10000E+01 volume	0 100000E+01 Volume 0.13596E+03	0.10000E+01 volume  0.75085E+02 ppml	0 100008+01 volume O 44748E+03 ppm]
ead 113 and name HA }} seid 110 and name HA }} 2 000 peak 19912 weight	cend 113 and name HA }) cend 14 and name HA }) 2 400 peak 19922 weight	used 113 and name HA )) 1 soo peak 19962 weight	cestd 113 and name HB* ) cestd 14 and name HB1 )) 2 200 peak 19992 weight	eeld 113 and name HB*) celd 14 and name HG )} 2 400 peak 20032 weight	HB% ) HD2%) weight	and name HB% ) and name HD1%) ak 20052 weight	and name HA )) and name HD1%) ak 20072 weight	B }) D1%}	and name HA }} and name HD1%) ak 20212 weight	and name HG2%) and name HB% ) ak 20242 weight	and name HG2%) and name HB }) ak 20252 weight	and name HG2%) and name HB1 )) ak 20272 weight	and name HG2%) and name HB2 )) ak 20292 weight	and name HG2*) and name HB2 )) ak 20302 weight	and name HB )) and name HD1 )) ak 20312 weight	and name HA }) and name HD2 }) ak 20332 which:	and name HD1 ))	ak 20182 weight and name HG2%) and name HA ))	ak 20532 weight and name HG2*) and name HG1 ))	/e1ght (024) (01 ))	2 100 peak 20562 weight teid 41 and name HG2%)	2 300 peak 20572 weight -Bid 112 and name HG2 )) seld 112 and name HA ))	1 400 peak 20592 weight send 67 and name HA })

2 612	659 1	808	4 854	0.835	5 446	1 710	4 337	5 550	4 826	1 409		4 287	4 167	1 759	1 246	5 021		4.859	5 046	4.745	9.9 8.5		727 2
1.425 ppm2	1 425 ppm2	1 548 ppm2	1 549 ppm2	1 647 ppm2	2 016 ppm2	5 050 ppm2	5 051 ppm2	5 051 ppm2	5 148 ppm2	5 149 ppm2		2 636 ppm2	4 853 ppm2	4 853 ppm2	2 486 ppm2			4 261 ppm2	4 114 ppm2				4 311 ppm2
0.94687E+02 ppml	0 42940£+03 ppml	0.18478E+02 ppm1	0 59811E+01 ppm1	0.66658+01 ppml	0 41488E+02 ppm1	0.12059E+02 ppm1	0.14713E+02 ppm1	0 19305E+02 ppml	0 76840E+02 ppml	0 13070E+02 ppm1		0 16127E+03 ppm1	0.212238+02 ppm1	0.13492E+00 ppm1	0 58772E+02 ppm1	65959E+02	.15205E+03	0 11242E+03 ppm1	0 34019E+02 ppm1	11249E+03	63	5	0 84503E+03 ppml
4 0 10000E+01 volume	0 10000E+01 volume	0.10000E+01 volume	0.10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0.10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume		0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 Volume	0 10000E+01	0 10000E+01	0 10000E+01 volume	0 10000E+01 volume	0.10000E+01	0.100005+01		0 10000E+01 volume
and name HG2%) and name HB2 )} peak 22382 weight	and name HG2%) and name HD1%) peak 22452 weight	and name HG2%) and name HG12}} peak 22482 weight	and name HG2*) and name HA )) peak 22492 weight	and name HG1%) and name HG12}) peak 22552 weight	and name HG2 )} and name HA }} peak 22592 weight	and name HB ) ) and name HB ) ) peak 22612 weight	and name HA )) and name HD1 )) peak 22632 weight	and name HA )) and name HA )) peak 22642 weight	11d 117 and name HA )) 11d 116 and name HA )) 2.300 peak 22682 weight	resid 117 and name HA )) resid 116 and name HD1%) 1 200 peak 22722 weight	and name HA ) } and name HG2t)	and name HB1 )) and name HD2 )) peak 22732 weight	and name HA )) and name HA )) peak 22742 weight	and name HA )) and name HB )) peak 22752 weight	and name and name peak 22852	and name and name peak 22882	and name and name cak 22892	and name HD1 )) and name HA )) peak 22932 weight	and name and name peak 22952	and name HD2 }} and name HB2 }} peak 22962 weight	and name HD1 )) and name HB1 )) peak 22992 weight	and name HD1 )) and name HB1 )) peak 23012 weight	and name KD1 }) and name KG1 )) peak 23022 weight
rD " and resid 69 rD " and resid 11 2 400 2 400	rD " and resid 69 rD " and resid 63 1.400 1.400	rD " and resid 49 rD " and resid 50 4.000 1 500	esid 49 0 600	said 49	rD " and reeld 57 rD " and reeld 36 3 100 2 000	1 200	rD " and resid 42 rD " and resid 44 4 200 1 300	resid 42	rD " and res rD " and res 2.600	{22722} eegid "BrD " and resid 117 segid "BrD " and resid 116 4 300 4 300 l 200	OR (22722) ( segid "BrD " and resid 117 ( segid "BrD " and resid 116	esid 7 esid 8 2 000	seld 38	ssid 37 0.000	esid 59 esid 56 2 200	561d 8 2 200	rD " and resid 8 rD " and resid 8 2 000 2 000	said 37 2.200	esid 44 esid 42 1.900	rD " and resid 91 rD " and resid 93 2 200 2 200	esid 11 esid 11 1 600	resid 8 resid 8 2.200	esid 44 esid 44 1 100
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	4. 646	o		3 296	0 683	2 564		2 597	1 140	3,535	4 151	7 606	1 966		1 570	1 646	1 954	1 913	3 010	3 533	4 989	5 141	2.726
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	0 808 ppm2	7 mdd 002 0	Surde Co.	763 ppm2 3	042 ppm2 0	ppm2 2		37077E+02 ppml 3 719 ppm2 2	17504E+02 ppml 4 656 ppm2 1	2mdd	16984E+02 ppml 1 155 ppm2 4	824948+02 ppml 1 155 ppm2 7	67010E+01 ppm1 1 797 ppm2 1		4 506 ppm2 1	27941E+02 ppm1 4 506 ppm2 1	2028/E+02 ppm1 1 007 ppm2 1	17290E+02 ppml 4 903 ppm2 1	ppm1 4.904 ppm2 3	ppm1 4.904 ppm2 3	1 551 ppm2 4	ppm1 1 551 ppm2 5	1 425 ppm2
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нозы НА 1)	Weight 0.10000E+01 volume 0 56291E+01 ppml 0 806 ppm2 H024) H024)	and axes (Fight)	and name Hills)	and name NCO1) and name NCO10 poak 21752 weight 0 1000000+01 volume 0 11571E+03 ppml 0 763 ppm2 3	and name HB )) and name HB ) and name HB () and name 10 )  1 0 10000&+01 volume 0 801528+02 ppml 2 042 ppm2 0	and name HA )) and name PA )) and name Ha ) 1 (100008-01 volume 0 236146-02 ppml 3 719 ppm2 2	and name	end man HSI )) perk 21812 weight 0 10000E+01 volume 0 37077E+02 ppml 3 719 ppm2 2	and name H71 ) and name H71 ) peak 21902 weight 0 10000E+01 volume 0 17504E+02 ppm1 4 656 ppm2 1 peak 21902 weight 0	and name (1014) and name HEI )) peak 21952 weight 0 10000E+01 volume 0 368648+03 ppml 1.155 ppm2	and name M11) and name HA  ) and name HA  ) peak 21972 weight 0 10000E+01 volume 0 16984E+02 ppml 1 155 ppm2 4	and hame HD1+) And name HD1 1 1 155 ppm2 7	and name HB )) and name HB )) and name HB )) because the control of the control o	and name	and name AA }} and name AA }} and name AA }} peak 22132 weight 0 10000E+01 volume 0 30657E+03 ppm1 4 506 ppm2 1	and name HA )   and and name HA )   peak 22142 weight 0 10000E+01 volume 0 27541E+02 ppm1 4 506 ppm2 1	and namm HG28) and namm HB1)	and name HAA }} and name HAA }} and name HAA }} ppeAK 22222 walght 0 1000006+01 volume 0 178908+02 ppml 4 901 ppm2 1	and name BA )) and name (AC) )) peAK 22332 weight o 10000E+01 volume 0.41523E+02 ppml 4.904 ppm2 3	and name HA )) and name HB )) peak 22242 weight 0.10000E+01 volume 0.82426E+02 ppm1 4.904 ppm2 3	And hame #G19) peak 22322 velght 0 10000E+01 volume 0.17920E+03 ppml 1 551 ppm2 4	and name HG1), and and name (14) ); peak 22332 weight 0.10000E+01 volume 0 51283E+01 ppm1 1 551 ppm2 5	and name HD23) and answe HD1 )) peak 22372 weight 0 100006.01 volume 0 199746.02 ppml 1 425 ppm2
	Weight 0.10000E+01 volume 0 56291E+01 ppml 0 806 ppm2 H024) H024)		a control of the first many control of the first control of the period of the first control o	PD' sind 'resid 1 and name MC24)  177 sind 'resid 8 and name H731 () 1000000-01 volume 0 11571E-03 ppml 0 763 ppml 3 2 200 E700 peck 21379 singlet 10 1000000-01 volume 10 11571E-03 ppml 3 3 2 200 E700 peck 21370 singlet 10 1000000-01 volume 10 11571E-03 ppml 0 763 ppml 3	and name HB )) and name HB ) and name HB () and name 10 )  1 0 10000&+01 volume 0 801528+02 ppml 2 042 ppm2 0	HA )) Weight 0 100005+01 Volume 0 23614E+02 ppml 3 719 ppm2 2	BrD " and resid 81 and name BrD " and resid 80 and name Brh " and resid 81	read 8 of and hower HSB 1) 1 1900 per 2 1 190 per 2 1 200 per 2 1 2 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2	and name H71 ) and name H71 ) peak 21902 weight 0 10000E+01 volume 0 17504E+02 ppm1 4 656 ppm2 1 peak 21902 weight 0	Feets 50 and name Hill) Tests 8 and name Hill) 1 400 peak 21952 weight 0 10000E+01 volume 0 36664E+03 ppml 1.155 ppm2	110.v.  110. )) weight 0 10000E+01 volume 0 16984E+02 ppml 1 155 ppm2 4	3-rD " and resid 50 and hamme HD14) 2-rD maid resid 80 and name HD14) 2-rd 00 2-rd 00 peak 22022 assight 0 10000E+01 volume 0 #2494&+02 ppm.1 1 155 ppm2 7	"1950" and resid 50 and name HB )) "1950" and resid 50 and name HB )) "1950" and resid 51 and name HB ) "1950" and resid 51 and name HB ) "1950" and credit 1797 ppm2 1	entd 50 and name	Comesia do and name HA.)   1	coast So and name HA.)   1	50 and mame HG24) and mame HB11 )) ion peak 22212 weight o 100008:01 volume G 2028/E+O2 ppml 1 007 ppm2 1	<pre>ceside st and name HA } } tessid st and name HA } } 1 400 peak 22222 weight 0 100006+01 Volume 0 172906+02 ppml 4 903 ppm2 1</pre>	resaid st and name HA )) 2 cool deak 22232 weight o 10000E+01 volume 0.41523E+02 ppml 4.904 ppm2 3	<pre>resid 64 and name HB. )) 2 400 peak 22242 weight 0.100008+01 volume 0.824568+02 ppm1 4.504 ppm2 3</pre>	Exest 6 and name HO11)  resed 6 and name HO11)  2 000 peak 22322 weight 0 10000E+01 volume 0.17220E+03 ppml 1 551 ppm2 4	and name HG1), and and name (14) ); peak 22332 weight 0.10000E+01 volume 0 51283E+01 ppm1 1 551 ppm2 5	0234) HB1 )) Weight O 100006+01 Volume O 199746+02 ppml 1 425 ppm2

1 402	5 359	3 785	2 619	4 867	1 492	7 533	7 014	1 317	4 541	4.859	3 801	25				5 47 5 47 5 47 5 47	3 878	3 527				;
2 142 ppm2	1 401 ppm2	1 401 ppm2	1 401 ppm2	3 867 ppm2	2 144 ppm2	0 911 ppm2	0 911 ppm2	2 290 ppm2	0 415 ppm2	1 056 ppm2	1 056 ppm2				, ,	2 437 ppm2	649					2
70287E+03 ppm1	94978E+02 ppm1	265558+02 ppm1	23698E+03 ppml	.41356E+02 ppm1	21833E+02 ppm1	77951E+02 ppml	32246E+02 ppm1	94731E+01 ppm1	52852E+02 ppm1	21965E+02 ppml	32596E+02 ppm1	419785102	495168+02	613048	200	213225402 ppm1	.38413E+02	12238E+03	76917E+02	84217E+02	840248+02	70+1
10000E+01 volume 0	0.10000E+01 volume 0	100008+01 volume 0	10000E+01 volume 0	.10000E+01 volume 0	10000E+01 volume 0	0 10000E+01 volume 0	0.10000E+01 volume 0	0 10000E+01 volume 0	0 10000E+01 volume 0	10000E+01 volume 0	10000E+01 volume 0	1000001	10000E+01 volume	amil Cox	- 10-10-000 F	No June	volume	01 volume	volume	volume	yolume	aun 40A
name name 3732	and name HB2 )) and name HD1%) and name HD2%) and name HA )) peak 23762 weight 0	and name HD2t) and name HB1 )) peak 23802 weight 0	and name HD2%) and name HE% ) peak 23842 weight 0	and name HA )) and name HB )) peak 23882 weight 0	and name HB1 )) and name HD24) peak 23922 weight 0	нв2 )) н6¢ ) weight	and name HB2 )} and name HD4 ) eak 23982 weight	and name HG )) and name HD1%) eak 24072 weight	and name HD24) and name HA )) peak 24032 weight 0	and name HD1%) and name HB )) peak 24202 weight 0	and name HD1%) and name HB1 }) peak 24232 weight 0	and name HD1%) and name HD2%) neak 24262 weight D	HD14) HA ))	HA )) HB2 ))	HG ))	HG ))	and name HD1%) and name HA )) peak 24482 weight 0	and name HD1% and name H92 }} peak 24512 weight 0	HD14) HD4 ) weight	HA )) HD2%)	and name HA )) and name HE1 )) peak 24702 weight o	and name HEt )
and resid	and resid 14 and resid 14 and resid 14 and resid 14 ond resid 70	rD " and resid 14 rD " and resid 15 3.600 1 700	rD " and resid 14 rD " and resid 75 1 700 1 700	esid 18 esid 17 2 000	resid 18 resid 63 1 600	esid 18 esid 74 2 300	resid 18 resid 74 1 800	esid 18 esid 11 1 000	esid 18 esid 75 2 100	esid 18 esid 17 1 600	asid 18 asid 15 1 800	esid 18	BrD * and resid 18 BrD * and resid 69 2 900 2 100	reald 63	ee1d 63	rD " and resid 63 rD " and resid 15 2 500 2 000	rD " and resid 63 rD " and resid 18 3 200 1 900	resid 63 resid 68 2 100	resid 63 resid 74 2 300	resid 19	resid 19 resid 19 2 400	BrD " and resid 19
ASSI (23732) (( segid "BrD " ( segid "BrD " 2.200	( segid "B ( segid "B ASSI (23762) ( segid "B ( segid "B 3 100 ASSI (28922)	( segid ( segid ( segid 3 800 8 831 (2384	( segid "B ( segid "B 2 600 ASSI {23882}	( Begid ( Begid 3 500 ASSI (2392	( 8eg1d ") ( 8eg1d ") 3 900 ASSI {23972}	(( segid " ( segid " 3 200 ASSI {23982}	(( eegid ( eegid 3.700 ASSI {2402	(( segid "B ( segid "B 4 500 ASSI (24032)	oces ( seed of the control of the co	DOOK (CONTRACT OF THE PROPERTY	ASSI (2423 ( Begid ( Begid 3.700	ASSI (2426) ( Begid ( Begid ( Begid 3 500	ASSI {24272} ( Begid " ( Begid "	ASSI (24302) (( segid ") (( segid ")	ASSI (2445 (( segid (( segid () segid	ASSI (4462) (( 86244 ) (( 86314 ") 2.500	ASSI (24482) ( segid "B ({ segid "B 3 600	ASSI {24512} ( segid "E ( segid "E 2 900	ASSI [24542] ( segid "! ( segid "! 3 200	ASSI (24682) (( segid ") ( segid ") 3.100	ASSI (24702) ( segid "B ( segid "B	ASSI (24782) (( segid "
. 282	2 784	2 654		2 973	4.666	1 547	1 376		5 646	1 425		3 093	5 029	2 214	5 477	4 948	2 0 5	4 920	4.920	3 359	0 409	1 246
4 361 ppm2	4 557 ppm2					2 635 ppm2	2 635 ppm2		2 784 ppm2	3 768 ppm2		4 952 ppm2	2 308 ppm2	4 952 ppm2	2 585 ppm2	5 297 ppm2	2 978 ppm2	2 733 ppm2	2 978 ppm2	z 732 ppm2	4 654 ppm2	4.656 ppm2
68384E+02 ppm1	03 ppm1		, mod	t mood	널																	п
0 683	26320E+	549716+	0 26059E+03	0 215688+03			0 45861B+02 ppml		0 80378E+01 ppm1	o 32256E+02 ppml		0 44085É+02 ppm1	0 11322E+03 ppm1	0 18609E+04 ppm1	0.38586E+02 ppm1	0.79375E+01 ppm1	0.21350E+02 ppm1	0.21427E+03 ppml	0 71312E+02 ppm1	0 14282E+03 ppm1	0 64900E+02 ppml	0 44849E+03 ppml
10000E+01 volume 0	Volume 0 26320E+	10000E+01 volume 0 54971E+	volume 0 26059E+03	volume 0 21568E+03	volume 0.75568E+02	volume 0 71085E+02	0 45861E+02		Volume 0 80378E+01	volume 0 32255E+02		0 10000E+01 volume 0 44085E+02 ppm1	Volume 0 11322E+03	volume 0 18609E+04	10000E+01 volume 0.38586E+02	10000E+01 volume 0.79375E+01	volume 0.21350E+02	volume 0.21427E+03	volume 0 71312E+02	volume 0 14282E+03	Volume 0 64900E+02	Volume 0 44849E+03
end name HD1 }} and name HD2 }) peak 23062 weight 0 10000E*01 volume 0	and name (BD) }  and name (BD)    and name (BD)    peak 23082 weight 0 100008+01 volume 0 263208+  and name (RD) }  mesk 23092 weight 0 100008+01 volume 0 517398+	and name HD2 )) and name HG2 )) peak 23302 wealth 0 10000E+01 volume 0 54971E+	and name HD1 )) and name HO1 )) end name HO1 )) peak 23112 weight 0 10000E+01 volume 0 26059E+03	and name HD2 )) and name HB1 )) pask 23122 washir 0 10000B+01 volume 0 2156BE+03	and name HG2 )) and name HA )) and name HA )) peak 22202 weight 0 10000E+01 volume 0.75568E+02	and name HG1; and name HG1; peak 23242 weight 0 10000E+01 volume 0 71085E+02	and name HG1 }} and name HD14 peak 23272 weight 0 10000E+01 volume 0 45861E+02	and name HG1 }} and name HD1*)	and name HA )) and name HA )) peak 23292 weight 0 10000E+01 volume 0 80378E+01	and name HD1) and name HD1%) peak 21372 weight 0 10000E+01 volume 0 3225E+02	and name and name	and name HA )) and name HE1 )) ak 23402 weight 0 10000E+01 volume	and name HB2 )) and name HA )) ak 23422 weight 0 10000E+01 volume 0 11322E+03	and name HA )) and name HO1 )) peak 23472 weight 0 10000E+01 volume 0 18609E+04	HB2 }) HA )) weight 0 10000E+01 Volume 0.38586E+02	and name HA )) and name HA )) peak 23552 weight 0 10000E+01 volume 0.79375E+01	and name HG1 )) and name HA )) peak 23602 weight 0 100005+01 volume 0.21350R+02	and name HB1 )) and name HA )) cak 23632 weight 0 10000E+01 volume 0.21427E+03	and name HG2 )) and name HA )) eak 23642 weight 0.100008+01 volume 0 71312E+02	and name HB1 )) and name HB2 ) heak 21652 weight 0 10000E+01 volume 0 14262E+03	and name HA )) and name HD2k) beak 23672 weight 0 10000E+01 volume 0 64900E+02	and name HG21) and name HG21) eak 23712 weight 0 100005+01 volume 0 44849E+03
resid 37 and name HDI )) resid 37 and name HDI )) 3 300 pesk 23062 HB3Bh ) 7 300 pesk 23062 HB3Bh ) resid 01 and name HD1 11	ID * and resaid 91 and name HD1);  IT * and resaid 91 and name HD1);  IT * 100 peak 23.082 weight 0 100005+01 volume 0 263206+  IT * and resaid 44 and name HD2;  IT * and resaid 44 and name MD2;  IT * 300 peak 23092 weight 0 100005+01 volume 0 517395+  IT * 300 peak 23092 weight 0 100005+01 volume 0 517395+	send 44 and name HD2 )) send 44 and name HD2 )) 1 300 peak 23302 weasht 0 10000E+01 volume 0 54971E+	and name HD1 )) and name HD1 )) pek 23112 weight 0 10000E+01 volume 0 26059E+03	Batd 44 and name HD2 )) Batd 44 and name HB1 )) 1 800 peak 23122 weight 0 10000E+01 volume 0 21568E+03	repid 44 and name HG2 )) repid 41 and name HA )) 2 300 peak 23202 wayst 0 10000E+01 volume 0.75568E+02	TID * and reald 11 and name HG1 ))  10 * and reald 69 and name HG1*)  2 600	and name HG1 ) and name HD34) peak 23272 weight 0 10000E+01 volume 0 45861E+02	eesd 11 and name HOI }}	and name HQ1 )) and name HA )) peak 23292 weight 0 10000E+01 volume 0 80378E+01	DD ' and resid 9 and name HD19) 19 40 and resid 14 and hame HD19; 10 50 to 100 pask 2017 weight 0 100008+01 volume 0 32255E+02	and name and name	and name HA )) and name HE1 )) peak 23402 weight 0 10000E+01 volume	and name HB2 )) and name HA )) ak 23422 weight 0 10000E+01 volume 0 11322E+03	and name HA )) and name HO1 )) peak 23472 weight 0 10000E+01 volume 0 18609E+04	resid 11 and name HB2 )) resid 10 and name HA )) 1 900 peak 21572 weight 0 1000008+01 volume 0.385868+02	reald 12 and name HA )) reald 11 and name HA )) 0 900 peak 23592 weight 0 10000E+01 volume 0.79375E+01	resid 29 and name HGI ))  resid 27 and name HA )) 1 G00 peak 23602 weight 0 100005+01 volume 0.21350E+02	resid 13 and name HB )) resid 113 and name HA )) 1 800 peak 23632 weight 0 10000E+01 volume 0.21427E+03	resid 13 and name HG2 ))  resid 113 and name HA ))  2 300 peak 23642 weight 0.100008+01 volume 0 71312E+02	cesid 13 and name HB1 }) cesid 12 and name HB2 }) 2 100 peek 23652 weight 0 10000E+01 volume 0 14282E+03	ceaid 14 and name HA )) resid 18 and name HD2t) 2 200 peak 23572 weight 0 10000E+01 volume 0 64900E+02	rD " and resid 111 and name HA )) 1rD " and resid 110 and name HG24) 1 400

#### CHECK TOTAL

5.444	611 1	4 933	4 533	2.206	2 206	7 893	677 7	877 7	4 532	4 932			3 069 8		2 157	1 970	1 410		4 511	, c		7 529	2 182
4.804 ppm2	4 804 ppm2	4.013 ppm2	4 015 ppm2	3 620 ppm2	3 916 ppm2	3 670 ppm2	3 620 ppm2	3 917 ppm2	1 551 ppm2	1 549 ppm2	;	5 55			1 599 ppm2					, i	251	2 155 ppm2	154
0 66772E+02 ppm1	30316E+02 ppml	12678E+03 ppm1	0,62906E+02 ppml	29534B+03 ppm1	15410E+03 ppml	12121E+03 ppm1	45042E+03 ppm1	32323E+03 ppm1	41073E+02 ppm1	10658E+03 ppm1		38225E+02	38422E+02	20266B+02 ppml	18743E+03 ppml	84468E+02	55301E+03	19996E+02	864745+02	14960E+02	713786+02	22034E+03 ppm1	51339E+03
10000E+01 volume 0	.10000E+01 volume 0	0.10000E+01 volume 0	10000E+01 volume 0.	0 10000E+01 volume 0	0 100008+01 volume 0	0.10000E+01 volume 0	10000E+01 volume 0	10000E+01 volume 0	0.10000E+01 volume 0	0 100008+01 volume 0		volume	volume	10000E+01 volume 0	10000E+01 volume 0	volume	volume	volume	volume	volume	volume	o 10000R+01 volume o	volume
and name HA })	resid 98 and name HA )) resid 34 and name HE*) 1,800 peak 25412 weight 0	and name HB1 }) and name HB1 }) and 25422 weight	and resid 98 and name HB1 )) and resid 30 and name HB2 )) 700 2.200 peak 25442 weight 0	reeld 85 and name HB2 )) reeld 99 and name HB% ) 1 600 peak 25452 weight	sid 85 and name HB1 )) sid 99 and name HB4 ) 2.000 peak 25462 weight	sid 98 and name HB2 )) sid 34 and name HZ )) 2 100 peak 25502 weight	#sid 85 and name HB2 )) ###################################	resid 85 and name HB1 )) resid 34 and name HE*) 1 600 peak 25522 weight 0	esid 101 and name HD1%) esid 30 and name HB2 )) 2 000 peak 25562 weight	resid 101 and name HD1V) resid 30 and name HB1 }}	sold 21 and name HG2*)	1 900 peak 25582 weight sid 21 and name HG2%) sid 24 and name HG2 ))	1 900 peak 25642 weight 0 setd 21 and name HG2%)	1 500 peak 25652 weight 0 esid 21 and name HG2*)	1 800 peak 25722 weight 0 ceard 101 and name HD1*)	2.400 peak 25752 weight 0 regid 110 and name HB )) resid 116 and name HD1%)	1 300 peak 25812 weight esid 110 and name HG11)) esid 78 and name HD24)	1 500 peak 25822 weight eaid 110 and name HD1%) eaid 75 and name HA }}	2 400 peak 25842 weight resid 110 and name HG2k) resid 114 and name HAI ))	1 300 peak 25852 weight eard 110 and name HG2%) eard 107 and name HD%)	2.300 peak 25952 weight esid 110 and name HD14) esid 106 and name HE4)	1 500 peak &5002 weight cell 110 and name HD1) (egid 106 and name HD4)	resid llo and name HDL*) resid ll5 and name HBL*) i.300 peak 26082 weight 0
(( segid "BrD 3 300 2	ASSI {25412} {{ ecgid "BrD ( ecgid "BrD 3 700 3	ASSI {25422} ({ seg1d "BrD " and ({ seg1d "BrD " and 2 900 2 100	ASSI {25442} ({ segid "SrD " ({ segid "BrD " 3 300 2.	{25452} segld Bri segld Bri 2 500	ASSI {25462} ( segid "BrD " and ( segid "BrD " and 2 800 2 000		ASSI {25512} ( segid "BxD " and r ( segid "BxD " and z 2 400 1400	ASSI [25522] (( eegid "BrD " and a ( eegid "BrD " and a 2 500 1 600	AGSI {25562} { negld "BKD" and x ( eegld "BKD" and z 3 500 3 100	ASSI {25572} ( segid "BrD " and ( segid "BrD " and 1 ono	ASSI (25582) ( segid "BxD " and z ( segid "BxD " and z	3 600 3 200 ASSI [55642] ( eegid "BtD" and re (( eegid "BtD" and re	3 600 3.200 ASSI {25623 (25624) 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ASSI (26722) ASSI (26722) ( segad "BrD" and z ( secied "BrD" and z	2 700 1 800 ASSI (25752)	3 100 2 400 ASSI (25812) ( degtd "BrD" and ( degtd "BrD" and ( degtd "BrD" and		4.000 4.000 ASSI {25842} ( segid "BrD " and ( segid "BrD " and	3 100 {25852} megid "Br megid "Br	4.200 (25952) segid "Br wegid "Br	3.200 2 600 ASSI [26002] ( segad "brp " and r ( segad "brb " and r	2 500 1 ASSI {26012} { aeqid "BrD }, ( aeqid "BrD	2} 'Br
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0.57590E+02 ppml 1.	37891E+03 ppm1 2	0 74438E+03 ppm1 2	0.24553E+03 ppm1 3	ppm1	0 42303E+03 ppml 2	ppm1	15768E+03 ppm1 1	0.65857E+03 ppm1 2	0 25380E+02 ppml 2		0 61127E+02 ppm1 1	0 61439E+03 ppml 2	0 17249E+03 ppm1 1	4202E+02 ppm1 1	0 17680E+03 ppml 1	42795E+02 ppm1 1	43138E+02 ppml	0 52950E+02 ppml	0 827415+02 ppm1 4	0 74692E+02 ppml 2	0.140185+03 ppm1 2	0 47210E+03 ppm1	6966E+01 ppm1.
0.10000E+01 volume 0.57	0.10000E+01 volume 0 37	0 100008+01 volume 0 74	0 10000E+01 volume 0.24	0.10000E+01 volume 0 29588E+03	0 10000E+01 volume 0 42	0 10000E+01 volume 0 12393E+02	0 10000E+01 Volume 0 15	0 10000E+01 volume 0.65	0,10000E+01 volume 0 29		0.10000E+01 volume 0 63	0 10000E+01 volume 0 63	0 10000E+01 volume 0 1	0 10000E+01 Volume 0 54202E+02 ppm1	, 0 10060E+01 volume 0 1	0 10000E+01 volume 0 4:	0 10000E+01 volume 0 4	0 10000E+01 volume 0 5	0 10000E+01 volume 0 8	0 10000E+01 volume 0 7	0 10000E+01 volume 0.1	0 10000E+01 volume 0 4	0 10000E+01 volume 0 46966E+01 ppm1
2.200 peak 24782 weight 0	and name HD1 )) and name HE% ) peak 24832 weight	and name HD1 )) and name HD14) peak 24842 weight	and name HG1 }) and name HG1 }) peak 24882 weight	and name HG2 )) and name HG1 )) peak 24892 weight	21 and name HB ]) 106 and name HDV ) 100 peak 25012 weight	and name HG12)) 6 and name HD%) peak 25022 weight	resid 21 and name HG12)) resid 17 and name HG2%} 2 000 peak 25072 weight C	resid 21 and name HG11)) resid 17 and name HG2%) 1 200 peak 25082 weight 0	resid 21 and name HG11)) resid 102 and name HD2*) 1 700 peak 25092 weight (	and name	resid 21 and name HG12)) resid 20 and name HB1 )) 2 200 peak 25102 weight (	resid 62 and name HGI )) resid 62 and name HGZ )) 1 200 peak 25132 weight (	resid 21 and name HDIV) resid 102 and name HD2V) 2 000 peak 25192 weight (	resid 21 and name HD1%) resid 18 and name HB2 }} 2 100 peak 25202 Weight (	resid 21 and name HG2t) resid 106 and name HEt } 2 000 peak 25272 weight	resid 21 and name HG2t) resid 82 and name HZ }) 2 000 peak 25302 weight	resid 101 and name HG2t) resid 30 and name HA )) 2 000 peak 25312 weight	resid 101 and name HA  ) resid 100 and name HA  ) 2 100 peak 25322 weight	resid 101 and name HA )) resid 100 and name HB1 )) 2 400 peak 25332 weight	resid 101 and name HB )) resid 30 and name HB2 )) 2 300 peak 25342 weight		101 and name HB )) 102 and name HD1%) 00 peak 25362 weight	98 and name HA )) 102 and name HD1%) 00 peak 25302 weight 98 and name HA ))
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3 132 ppm2	3 127 ppm2	1 892 ppm2	2 781 ppm2	2 930 ppm2	2 733 ppm2	2 815 ppm2	2 684 ppm2	5.642 ppm2	3 669 E	3 421 ppm2		3 423 ppm2	3 423 ppm2	3 423 ppm2	3 962 ppm2	3 913 ppm2	3 912 ppm2	3 902 ppm2	2 339 ppm2	2 979 ppm2	2 979 ppm2	4 163 ppm2
0.33522E+02 ppm1	0 26306E+03 ppm1	0 223935+03 ppml	0.44296E+02 ppml	0 19758E+02 ppm1	0 360668+01 ppm1	0.56268E+02 ppml	0 11517E+03 ppml	0.31951E+02 ppm1	0 59751E+02 ppml	0 18249E+02 ppm1		0 18330E+02 ppml	0.20958E+03 ppm1	0.49005E+02 ppm1	0 85246E+02 ppm1	0 16098E+02 ppm1	0 47687E+02 ppml	0 23078E+02 ppm1	0 49600E+02 ppml	0 66937E+02 ppml	0 24126E+02 ppm1	0 46123E+02 ppm1
• 10000E+01 volume	0.10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 100008+01 volume	0 10000E+01 volume		0.10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0.10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume
and name HA )) and name HG1 )) and name HA )) and ane HA ))	HG1 )) HD1 )) weight	and name HD1 )) and name HG1 )) peak 26872 weight (	and name HG1 )) and name HG2 )) peak 26902 weight (	and name HB1 )) and name HA )) peak 26922 weight (	and name HG1 )) and name HA )) peak 26952 weight (	2 and name HG2 }) 1 and name HG2 }) peak 26962 weight	and name and name peak 26972	and name HA )) and name HB2 )) peak 27022 weight	and name HB1 )) and name HB2 )) peak 27032 weight	0 and name HB2 )) 1 and name HD1*) peak 27082 weight	and name	### 100 and name HB2 }) ####################################	and name HB2 )) l and name HG11)) peak 27102 weight	0 and name HB2 }) and name HB* } peak 27112 weight	and name HD1 )) and name HA )) peak 27142 weight	and name HD2 )) and name HB2 )) peak 27172 Weight	and name HD2 )) and name HB )) peak 27192 weight	and name HD2 )) and name HA )) peak 27202 weight	and name HG )) and name HG1%) peak 27322 weight	and name HB1 )) and name HA }) peak 27342 weight	and name HB1 )) and name HG1*) peak 27362 weight	and name HA )) and name HA )) peak 27372 weight and name HB1 ))
and resid 93 and resid 94 and resid 95 400 1 800	and resid 94 and resid 97 700 1.700	and resid 86 and resid 87 800 1 800	and resid 36 and resid 57 100 2 000	and resid 37 and resid 54 000 1 500	and resid 37 and resid 36 300 0 200	send 11 2 100	esid 61 esid 58 2.200	esid 89 esid 93 1 800	estd 89 cstd 96 2.200	esid 10 esid 10 1 500	esid 10 esid 10	y v	rD " and resid 100 rp " and resid 100 1 800 1 800	arD " and resid 10 arD " and resid 99 2 900 2 100	esid 80 esid 77 2 400	esid 80 esid 84 1 400	said 83 2 100	esid 80 esid 52	esid 56 said 81 2.100	[27342] segid "BrD " and resid 55 segid "BrD " and resid 34 34 3500 2.700 2.200	arb " and resid 55 3rb " and resid 81 3 800 1 600	2   PED
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HG24) H84) H84)c 0.100005401 Volume 0.52641E+02 ppml 1.254 ppm2	MG2k) HG11)) weight 0 10000E+01 volume 0 10456E+02 ppml 1 254 ppm2 1	HOIN) HOII) weight 0 10000E+01 Volume 0.581805+02 ppml 1 154 ppm2 1	and name HB1) and name HB1 ) ak 26142 weight 0 10000E+01 Volume 0.40630E+03 ppml 1 154 ppm2	and hame ACM.) and name AR.)) ask 26212 weight 0.100008+01 volume 0.137628+02 ppml 1.401 ppm2 5	HR24) HR24) Weight 0 100006+01 volume 0 790458+02 ppml 1 401 ppm2 2	HG2%) HB1)) Weight 0 10000E+01 volume 0 25645E+02 ppml 1.401 ppm2	nnd name HG31) and name HG11) ak 26352 weight G 10000E+01 volume O 22212E+03 ppml 1 401 ppm2 1	and name HGZV) and name HDLV) ak 26262 weight 0 10000E+01 volume 0 45578E+03 ppml 1 401 ppm2	HRD.)) Weight 0 10000E+01 volume 0 76154E+02 ppml 1 401 ppm2 4	As and name (HD14)  5 and name (HD12)  00 peak 24372 waight 0 100006+01 volume 0.79388E+02 peml 1 401 ppm2 3	HD14; HB2 ))	and name HD1*)  and name weilt ( 100008-01 volume 0 240618-03 ppml 1 401 ppm2	HD14) 484131 0 10000E+01 volume 0 93798E+03 ppml 1 401 ppm2 1	HB14) HHB2) Nemajfir 0 10000E+01 volume 0 39159E+03 ppm1 1 399 ppm2 1	and name HDI1) and name HDI1) and name 10.000 and 10.000 and 10.000 and 10.000 and 10.000 bm2 0	HD1t) HG51t 0.0000E+01 volume 0.13707E+04 ppm1 1.399 ppm2 1	and name HD24) datd name HD24 beak 2650 weight 0 10000E+01 volume 0 60749E+03 ppml 1 501 ppm2 4	HB )) Weaght 0 10000E+01 volume o 11089E+02 ppm1 2 432 ppm2 2	and name HB )) and name HGP) states (100000000) and name hGP) states 0.1000000000	and name HB )) and name HBH) k 26542 verjit 0 100008-01 volume 0.65125E+02 ppml 2.409 ppm2	and name HGZ )) and name A, ) & 2662 Weish ) 0 100008-01 Volume 0 56609E-02 ppml 2 519 ppm2	and name HG1 )) and name HB1 )) pask 26692 weight 0 10000E-01 volume 0 32972E-01 ppm1 3 127 ppm2 s and name HG1 ))
0 10000E+01 volume 0 52641E+02 ppml 1 254 ppm2	cont."H.D. and readd 110 and name MC21) mcgaf. The cont. name MC21 mcg	eggid "BrD " and resid 110 and hame HO1%) eggid "BrD " and resid 116 and hame HO11) 1 300 2,700 2 200 peak 26132 weight 0 100008+01 volume 0.581805+02 ppml 1 154 ppm2 1 (26142)	and capt dip on and anne HD14) seeged 'EFD' and reased 113 and name HB14 ) 1.400 1.400 peak 26142 weight 0 10000E+01 Volume 0.40620E+03 ppml 1 154 ppm2 (36512)	reard 11.6 and name MG24) 1. 300 peak 26212 weight 0 10000B+01 volume 0 13762B+02 ppml 1 401 ppm2 5	aegid 'BPD' and reach 115 and name HO24) seegid 'BPD' and reach 79 and name HD2 )9 3 600 2 300 peak 26222 weight 0 100006401 volume 0 790458402 ppm1 1 401 ppm2 2 (96542)	aegid "BPC" and reash 116 and name NG3*) seegid "BPC" and reash 116 and name NB1.) seegid "BPC" and reash 116 and name NB1.) (2655)	degrid *psp. * and resed 116 and name HG21)  wegsd *spr* and resed 116 and name HG11)  1 and resed 11 and resed 12625 weight 0 10000E+01 volume 0 22212E+03 ppm1 1 401 ppm2 1  [36262]	bead 116 and name MG219 2 100 peak 26262 weight 0 10000E+01 volume 0 45578E+01 ppm1 1 401 ppm2	and depend 116 and name HD14) neged 'BTO' and raid 116 and name HD14) neged 'BTO' and raid (A) and sman (A) 1) (2 600 2 500 peak 26322 waight 0 10000E+01 volume 0 763948+02 ppm1 1 401 ppm2 4 (26572)	respid'fatto' a not resid 11st and name HD11); sespid'fatto' and transhe HD11   1 and name HD11   1 an	#egid "BrD" and resid l16 and name HDI4) #egid BrD and resid PD and name HDI4) 1400 2 900 2 100 psak 2532 weight 0.10000E+01 volume 0 54400E+02 ppml 1.401 ppml2 1 400 2 900 2 100 psak 2532 weight 0.10000E	Actions)  Section and reash lis and name HDIN) seeptd 'BFD' and reash lin and name HDIN (10000E-01 volume 0 24061E+03 ppml 1 401 ppml 2 600 d 'BT ) 700 peak Zefdow weight 0 10000E+01 volume 0 24061E+03 ppml 1 401 ppml	(54312)   (54312	(40131) [40131] and read 116 and name HD14) [4014] and the and name HB14) [4015] and read 178 and name HB1 (1016) [4015] and 1016] [4015] [4016] [401	40477278 and reard 116 and name HDIN) aged "BrD" and reard 12 and name HDIN 4 aged "BrD" and reard 18 and name HDIN 4 aged 4 900 c.55118E-O1 ppml 1 399 ppm2 0	Ep " and read 116 and name HD14) Po " and read 110 and name HG24) Po " and read 110 and name HG24 Po " 1000 peak Sedes besight 0 100005+01 volume 0 113707E-04 ppm1 1.399 ppm2 1	FO " and resid 63 and name HD24) FO " and resid 66 and name HA. 1 300 peak 26250 seight 0 10000E*01 volume 0 60745E*03 ppm1 1 501 ppm2 4 1 300 peak 2620 seight 0	esid 116 and name HB )) esid 118 and name HB ) 1 loo peak 2852 weight 0 10000E+01 Volume 0 11099E+02 ppml 2 432 ppm2 2	Featd 116 and name HB )) centd 110 and name HG2b) 1 900 peak adsaze WG12b (0 100006-01, volume 0 354468-02 ppm1 2 409 ppm2	BED - and resid lis and mamme HB  ) BED - and resid lis and mamme HB  ) BED - and resid lis and namme HB   2 700 2.200 pesk 26544 weight 0 100008+01 volume 0.65125E+02 ppml 2.409 ppm2	i reald 100 and name NG2 )) i reald 100 and name NG2 )	reald 94 and name HG1 )) teald 93 and name HB1 )) to 100 peak 26692 weight 0 10000E-01 volume 0 31972E-01 ppm1 3 127 ppm2 5 reald 94 and name HG1 ))

	7 637	4 727	4 525	3 918	3 703	3.919	2 043	1 590	0 424	7 534	7 041		5 371	4 509	4 733	3 996	3 003	3 451	3.443	7 064	7 778	992 0	7 041
	0.662 ppm2	0 761 ppm2	0 761 ppm2	0.761 ppm2	0.662 ppm2	0 662 ppm2	0 760 ppm2	0 761 ppm2	0 760 ppm2	1 254 ppm2	1.253 ppm2		1 254 ppm2	1 254 ppm2	1 251 ppm2	1 254 ppm2	1 254 ppm2	2.684 ppm2	1 993 ppm2	1 993 ppm2	1 842 ppm2	1 842 ppm2	2 141 ppm2
	14234E+03 ppm1	43609E+02 ppm1	0.46405E+02 ppml	77501E+01 ppml	0.14435E+03 ppm1	0 12278E+03 ppml	18524E+03 ppml	.29008E+03 ppml	64808E+02 ppml	17777E+02 ppml	54803E+02 ppm1		41030E+02 ppm1	0.83493E+02 ppml	0.99805E+02 ppml	27666E+02 ppm1	0.41722E+02 ppm1	. 28628E+02 ppml	. 20241E+02 ppml	0 13708E+03 ppm1	0 70904E+02 ppm1	0 34445E+02 ppml	0 29286&+03 ppml
•	0 10000E+01 volume 0	10000E+01 volume 0	10000E+01 volume 0	0 10000E+01 volume 0	10000E+01 volume 0	O 100008+01 Volume O	10000E+01 volume 0	10000E+01 volume 0	10000E+01 volume 0	0.10000E+01 volume 0	10000E+01 volume 0		10000E+01 volume 0	0 10000E+01 volume 0	10000E+01 volume	10000E+01 volume 0	10000E+01 volume C	10000E+01 volume 0	10000E+01 volume 0	10000E+01 Volume	10000E+01 volume	.10000E+01 volume	0.10000E+01 volume
and name HD2*) and name HE* )	HD2%) HEW ) Weight	and name HD1%) and name HA )) peak 28032 weight 0	aid 78 and name HD1%) aid 75 and name HA )) 2 000 peak 28062 weight 0	HD1*) KB1 )) weight	and name HD2*) 6 and name HB2 )) peak 28122 weight 0	and name HD2%) 6 and name HB1 )) peak 28132 weight 0	and name HD1%) and name HB )) peak 28192 weight 0	and name HD1%) and name HD2%) peak 28202 weight 0	and name HD1%) and name HD2%) peak 28232 weight 0	and name HD2%) and name HE% ) peak 28262 weight 0.	and name HD2%) and name HEV ) peak 28272 Weight 0	and name HD2*) and name HZ }}	HD2*) HA )) weight 0	name HD2%) name HA )) 8322 weight	and name HD2*) and name HA )) peak 28342 weight 0	HD24) HA )) weight 0	and name HD2%) and name HB )) peak 28372 weight 0	HG1 )) Weight 0	and name HG1 )) peak 28412 weight 0	and name HB1 )) and name HEt ) ak 28442 weight 0	2 and name HB2 )) and name HB% ) peak 28472 weight 0	and name HB2 )) and name HG2%) eak 28502 weight 0	and name HG )} and name HB% ) eak 28532 weight
and resid 78	esid 78 2 100	esid 78 esid 22 2 000 p	eard 78 eard 75 2 000 p	rD " and resid 78 and name rD " and resid 106 and name 4 700 0 800 peak 28102	seld 78	esid 78 esid 10 2 100	esid 78 esid 81 1 800	esid 78	esid 78	esid 56 esid 74 1 400	seld 56	esid 56	2 000 2	2 400	esid 56	and resid 56 and resid 78 600 1 700	and resid 56 and resid 25 100 z 000	980	1 500	181d 10 181d 62 2 100	esid 34 2 300	2. 2	and resid 10: and resid 62 600 1 600
( segid "BxD " ( segid "BxD " (	( segid "BrD " and r ( segid "BrD" and x 2.900 2 100 ASSI (26032)		ASSI (Z8084) ( segid "BrD " and r ( segid "BrD " and r 3.500 3 100	ASSI (26102) ( segid "BrD " and ( segid "BrD " and 4 700 4 700	( segid "BrD " and ( segid "BrD " and ( segid "BrD " and 2.900 2.100	ASSI (28124) ( seegid "BYD " and Y' ( seegid "BYD " and Y' 2 2 900 2 100	( segid "BrD " and ( segid "BrD " and ( segid "BrD " and 2 700 1 800	( segid "BrD " and r ( segid "BrD " and r 2 500 1 600	( begid "BrD " and ) ( begid "BrD " and ) 3 300 2 700	#554 (20004) { segid "BrD " and r { segid "BrD " and r 4 4 100 4 100	( second "BrD " and ( second "BrD " and 3 400 2 900	C { segid "BrD " and r' ( { segid "BrD " and r' ( { 28292 }	<pre>( eegid "BrD " and ) (( eegid "BrD " and ) 3 500</pre>	( segid 'B (( segid 'B 3.100 ASSI {28342}	( segid "B ({ segid "B 3 000 ASSI {28352}	( segid "B (( segid "B 3.800 ASSI {28372}	( segid "BrD " (( segid "BrD " 3 500 3. ASSI {28402}	(( segid "B (( segid "B 3.800 ASSI ( 58412)	(( segid "B (( segid "B 4 000 ASSI (28442)	ASSI (* Segid "B ( Segid "B ( 2.900	( segid "B ( segid "B 3.200	2	A ASSI (26532) (( segald "BID" ( segald "BID" 2.500 1 ASSI (28562)
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5 442	1 091	1 788	3 003	4.809	7.529	4 990	7 529	5 143	4 362	2 106	2 004	1 652	4 377	3 33 6	250	4	8 S 09	7.047		7 532	7 635	7 528	7 031
2 979 ppm2	1 547 ppm2	1 599 ppm2	1.599 ppm2	1 599 ppm2	1.599 ppm2	1 645 ppm2	1 646 ppm2	1 549 ppm2	1 549 ppm2	1 500 ppm2	4 900 ppm2	4 803 ppm2						1 254 ppm2		1.056 ppm2	0 760 ppm2	0.662 ppm2	0 662 ppm2
0 54954E+02 ppm1	0 37353E+03 ppm1	30318E+03 ppm1	54052E+02 ppm1	56630E+03 ppm1	54070E+03 ppml	0 80681E+02 ppm1	0 62438K+03 ppml	0 31070E+03 ppm1	0 86052E+02 ppml	0 17686E+03 ppm1	0 10158E+04 ppm1	0 11137E+03 ppm1	1 mar 60 do 90 do	Two Constants		172218+02 ppm1	22274E+01	0 30077E+03 ppml		0 34865E+02 ppm1	0 24618E+03 ppm1	0 76393E+03 ppm1	83417E+03 ppml
0.10000E+01 volume 0	10000E+01 volume 0	0.10000E+01 volume 0 30318E+03	10000E+01 volume 0	volume 0	volume 0	0 10000E+01 volume 0	0 10000E+01 volume 0	0 10000E+01 volume 0	0 10000E+01 volume 0	0 10000E+01 volume 0	0 10000E+01 volume 0	0 10000K+01 volume 0		COTABACAC O AMELION TOTALOGO.		O. LOCOUR+O. VOLume O	volume			0 10000E+01 volume 0	0 10000E+01 volume 0	0.10000E+01 vclume 0	0 10000E+01 volume 0 83417E+03 ppm
and name HA )) peak 27392 weight 0.1	and name HG1%) and name HD1%) peak 27442 weight 0 1	and name HD2%) and name HG1%) peak 27452 weight 0.1	HD2%) HB )) weight 0	HD24) HA )) Weight	HD2*) HE% ) Weight		HD1%) HE% ) Weight	HDI*) HA )) weight	and name HD1%) and name HS2 )) peak 27662 weight 0 1			and name HA )) and name HGIE)		() (a)			HG ))	HG )) H2 )) weight	and name HG )) and name HE* )	HB2 )) HD% ) weight	HD1%) HE% ) weight	HD%) HD%) weight	
resid 36 2 100	esid 69 esid 18 2.100 p	esid 22 esid 25 1 600	esid 22 esid 25 2 100	resid 22 resid 60 1 300	esid 22 esid 74 2 200	esid 22 esid 60 2 300				estd 73 7es1d 76 2 000	11 {27712} { segid "BrD " and resid 35 and (segid "BrD " and resid 56 and ( 2 100 1 100 peal	181d 48	2, 20 1914 73	1 100 181d 76 181d 77	said 76	(1 (1)	200 0 0	esid 78 esid 82 2 000	eald 78	" and resid 78 and name " and resid 105 and name 3 200 1 900 peak 27912	esid 78 asid 106 1 700 pe	81d 76	1 100
(( segid "BrD '	ASSI (27442) ( segid "BrD " and ( segid "BrD " and 2 400	ASSI {27452} ( segid "BxD" and r ( segid "BxD" and r 2 500 1 600	ASSI (27472) ( segid "BID " and (( segid "BID " and 3.400 2 900	{27492} segid "B) segid "B) 2 300	ASSI {27552} ( segid "9xD " and i ( segid "9xD " and i 2 300 2 300	ASSI {27572} ( segid "BrD " and r ( segid "BrD " and r 3 200 2 600	ASSI {27582} { segid "BrD " and i ( segid "BrD " and i 2 200 1 200	ASSI {27632} ( segid "BKD" and resid 58 ( segid "BKD" and resid 68 2 500 1 600 1 600	ASSI {27662} ( segid "BrD " and r ({ segid "BrD " and z 3 100 2 400	ASSI (27692) ( segid "BrD ( segid "BrD 2 800 2	ASSI {27712} (( segid "BrD (( segid "BrD 2 100 1	ASSI {27722} (( segid "BID ( segid "BID	ASSI (27772) (( segid "BrD (( segid "BrD	3 400 2 900 ASSI {27822} (( pegid "BrD " and re	ASSI (27842) (( segid "BrD (( segid "BrD	3 700 3 400 ASSI {27872} (( segatd "BrD " and ref) ( segatd "BrD " and ref) ( segatd "BrD " and ref)	ASSI {27882} (( segid "BrD " and (( segid "BrD " and 5 500 5 500	9 8	OR {27892} ({ aegid "BrD { segid "BrD	ASSI {27912} ( segid "BrD ( segid "BrD 3 600 3	ASSI {27942} { segid "BrD " and z { segid "BrD " and z 2 600 1 700	ASSI (27982) ( segid "BrD " and ( segid "BrD " and 2 200 1 200	ASSI (27992) ( megid "BED " and re (( megid "BED " and are 2 100 1 100 OR (27992)

3 002	966	4 516	4 83	2 881	3 199		1 083	1 863	7.811	5 018		2.483	2 443	2 442	4 550	4 550	2 731	2 798	1 905	1 327	060 8	1.604	3 077
1.848 ppm2	1 847 ppm2		2 536 ppm2	2 536 ppm2	2 535 ppm2		1 947 ppm2	2 535 ppm2	4 361 ppm2	2 779 ppm2		5 346 ppm2	4 360 ppm2	4 755 ppm2	4 755 ppm2	5 000 ppm2	5.000 ppm2	5 003 ppm2	4 804 ppm2	S 445 ppm2	4 508 ppm2	4 507 ppm2	4.607 ppm2
0 23714E+02 ppm1	36305B+02	5	0 40557E+02 ppml	0 17311B+03 ppm1	0 12717E+03 ppml		0 80321E+02 ppm1	0 10558E+03 ppml	0 67859E+02 ppml	0 32210E+02 ppm1		0.37115E+02 ppm1	0 85748E+02 ppml	0 38576E+02 ppm1	0.51818E+03 ppm1	0 14178E+03 ppm1	0 83013E+02 ppm1	0 87723E+02 ppm1	0 13311E+02 ppm1	0 14252E+02 ppml	0 60630E+02 ppm1	0 72004E+02 ppml	0 52302E+02 ppml
• 0 10000E+01 volume	volume	volume	0 10000E+01 Volume	0 10000E+01 volume	0 10000E+01 volume		0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume		0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 100008+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0.10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume
and name HE's ) and name HB2 )) peak 29052 weight	and name HE's ) and name HA }) peak 29132 weight	and name HE's ) and name HA )) peak 29142 weight	and name HE* ) and name HA )) peak 29172 weight	and name HE* ) and name HB2 )) peak 29222 weight	and name HE* ) and name HG2 )) peak 29332 weight	and name	and name HB2 )) and name HG1*) peak 29292 weight	and name HE% ) and name HE% ) peak 29302 weight	and name HA )) and name HZ3 }) peak 29382 weight	and name HG1 )) and name HB1 )) peak 29472 weight	and name and name	and name HA )) and name HB2 )) peak 29602 weight	and name HB2 )) and name HB1 )) peak 29622 weight	and name HB1 )) and name HB1 )) peak 29632 weight	and name HB2 )) and name HD1 )) peak 29642 weight	and name and name peak 29652	and name HB1 }) and name HB1 }) peak 29662 weight	and name HA }) and name HG1 }} peak 29672 weight	1 200 peak 29692 weight	and name HA )) 2 and name HD1%) peak 29752 weight	and name HB2 }) and name HB1 }} peak 29772 weight	and name HB2 )) 1 and name HG2*) peak 29782 weight	and name HB1 )) and name HB2 )) peak 29792 weight
(29052) segid "BrD " and resid 59 segid "BrD " and resid 74 3 900 3 800 1.600	rD " and resid 59 rD " and resid 77 3 200 1 900	esid 59 esid 75 1 000	rD " and resid 54 rp " and resid 58 3 100 2 000	rD " and resid 54 rD " and resid 57 2 000 2.000	rD " and resid 54 rD " and resid 59 2 100 2 100	6.6	resid 54 resid 81 2 300	rD " and resid 54 rD " and resid 59 2 200 2.200	rD " and reald 32 rD " and reald 32 2 600 2 300	legid "BrD " and resid 91 segid "BrD " and resid 93 3 700 3 400 1 800	pres.	segid "BrD " and resid 70 segid "BrD " and resid 73 3 000 1 900	1 (29524) ( seg1d "BrD " and res1d 70 ( seg1d "BrD " and res1d 9 ( 3 100	{29632} segid "BrD " and resid 70 segid "BrD " and resid 9 3 600 3 200 1.900 p	{29642} segid "BrD " and resid 93 segid "BrD " and resid 91 2 300 1 300 1 300	rD " and resid 93 rD " and resid 91 2 100 2 100	rD " and resid 93 rb " and resid 94 2 400 2 400	NED " and resid 93 NED " and resid 91 2 400 2 400	and restriction of the second restriction of	BrD " and resid 30 BrD " and resid 10 4.200 1 300	"BrD " and resid 30 "BrD " and resid 28 3 700 2 200	BrD " and resid 30 BrD " and resid 10 2 600 2 300	(29724) segid "BrD " and resid 27 segid "BrD " and resid 24 3 400 2 900 2 100
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7 245	7.534	10 10 10 10 10 10 10 10 10 10 10 10 10 1	4 525	\$ 354	5.574	3 682	2 473	919 0	1 750	5 395	4 419	;	4 426	1 140	1 978	1.661	1 424	1 583	1 263	3 451	4 900	2 018	1 944
1.303 ppm2 7 245	1 303 ppm2 7.534				1 303 ppm2 5.574					2 141 ppm2 5 395		,	139 ppm2 4	2.139 ppm2 1 1.40	ppm2 1	190 ppm2	2 186 ppm2 1 424	2 108 ppm2 1 583	4 807 ppm2 1 263	1 549 ppm2 3 451	1 546 ppm2 4 900	1 848 ppm2 2 018	1 648 ppm2 1 944
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and name HO24) and name HOK ) eak 28562 weight O 10000E+01 volumm O 18921E+02 ppml 1.303 ppm2 7	and name HD1) and name HD1) sak 28582 wazght 0 10000E+01 volume 0 86642E+02 ppml 1 303 ppm2	HD2#) HD2 )) Weight 0 10000E+01 volume 0 83600E+02 ppml 1 303 ppm2 5	HD24) HA )) weight 0.10000E+01 volume 0.15974E+03 ppml 1 303 ppm2 4	HD2f) NA )) weight 0.10000R+01 volume 0.44750E+02 ppml 1.303 ppm2 4	HD18) HD2 )) Weight 0 10000E401 volume 0 73306E+02 ppml 1 303 ppm2	102 and name HD21) 106 and name HB11) 00 peak 28702 weight 0 10000E+01 volume 0 16289E+02 ppm1 1 103 ppm2 3	21. and name HE 24. 21. and name HE 3. 0 00008-01 volume 0 68526E-02 ppml 1 105 ppm <sup>2</sup> 2	HID24) HID24) Weight 0 10000E+01 volume 0 55554E+02 ppm1 1.303 ppm2 0	and name HD11) and name HG17) and hame HG17 1.352 ppm/2 1	and name H(2 )) And name H(2 )) And name H(3 )) And name H(4 )) And name H(5 ) And name H(5 ) And name H(6 ) And name H(7 ) An	and name HB1 )} and name HA ) 0 100008+01 volume 0 459328+03 ppml 2 1300 ppm2 4	and hame HG ))	And name HG ) 10000E-01 volume 0 18123E-01 ppml 2 139 ppm2 4 and name HG ))	ak 28842 weight 0 10000E+01 volume 0 47604E+02 ppml 2.139 ppm2 1 and name RB1 )	Ak 28853 weight o 10000E+01 volume o 39467E+02 ppml 2 190 ppm2 1 and name HB1);	kk 28672 weight: 0 10000E+01 volume 0 26332E+03 ppm1 2 190 ppm2 and name RB1.)	aak 8882 washt 0.100006-01 volume 0 69706E-03 ppml 2 188 ppm2 1 and name HB1)	and name HB1 )) and name HG12) 10000E+01 volume 0 19745E+02 ppml 2 188 ppm2 1	and name (H. )) and name (H. )) and name (H. ) 100008.01 volume 0 514568-02 ppm1 4 607 ppm2 1	and name HD14) And name HD14) And name HD14 (10000E+01 volume 0 33849E+02 prml 1 549 ppm2 3	and name HD14)	and name HEA ) and name HEA ) be and name HEB ) consist to 10000E+01 volume 0.33346E+03 ppml 1 848 ppm2 2	and name HB2 ) and name HB2 )) peak 29042 weight 0 10000E+01 volume 0 22344E+04 ppml 1 848 ppm2 1
resid 22 and name HD24) (resid 22 and name HD4 ) (1 900 peak 28562 weight 0 100008+01 volume 0 189218+02 ppml 1.303 ppm2 7	reald 102 and name HD21) reald 106 and name HD1 ) 2 400 peak 28582 waight 0 100000E+01 volume 0 86642E+02 ppml 1 103 ppm2	DP and reseal 02 and name ED21) DP and reseal 28 and name ED21) D2 400 z 400 pcaK 28622 weight 0 100008:01 volume 0 816008+02 ppml 1 303 ppm2 5	and resald 106 and name HE21) and resald 106 and name HE )1 000 2 000 peak 28632 weight 0.10000E+01 volume 0 15974E+03 ppml 1 303 ppml 4	and feetal 102 and name HD21) and feetal 21 and name HD 1) 100 2 000 peak 28642 weight 0.100008+01 volume 0.447508+02 ppml 1.303 ppml 4	reshed 102 and name HD21) reshed 26 and name HD21) z 300 peak 28662 weight 0 10000E+01 volume 0 73306E+02 ppm1 1 303 ppm2	esad 102 and name HO21) 1 400 peak 28702 weight 0 10000E+01 volume 0 36289E+02 ppml 1 303 ppm2 3	estol 102 and name HD24) estol 21 and name HB 1) 2 300 peak 28722 weight 0 10000B+01 volume 0 68526E+02 ppml 1 105 ppm2 2	esad 102 and name HU28) esal 70 and name HU28 2.100 peak 28792 weight 0 10000R+01 volume 0 \$5554E+02 ppml 1.103 ppm2 0	and reard 115 and name HD14) and reard 17 and name HB240 1 200 1 200 peak 28192 vasidt 0 10000E+01 volume 0 67664E+03 ppml 1.352 ppml 1 200 1 200 peak 28192 vasidt 0 10000E+01 volume 0 67664E+03 ppml 1.352 ppml 1	and reaid 66 and name NO2 )) and reard 65 and name and name 0 10599E-03 ppm1 2 141 ppm2 5 2 200 pcm2 pcm3 wright 0 10000E+01 volume 0 10599E-03 ppm1 5	and read 115 and name HB1 }} and read 115 and name HB1 }} 400 1 400 peak abstract weight 0 100008401 volume 0 459328401 ppml 2 190 ppm2 4	); "PrO' and resid 115 and hame HG )) "PrO' and resid 110 and name HA ))	2 000 pask 28822 waight 0 10000E+01 volume 0 18123E+03 ppml 2 139 ppm2 4 enat 112s and name HG )	2 100 peak 28842 weight 0 10000E+01 volume 0 47604E+02 ppml 2.139 ppm2 1 receld 113 and name HB1 )	1 900 peak 28852 weight o 100008+01 volume o 394678+02 ppml 2 190 ppm2 1 sach 11s and nume HB1.) sach 110 and nume HB12)	1 900 peak 26672 weight 0 10000E+01 volume 0 26332E+03 ppm1 2 190 ppm2 eesk 111 and name HD1)	1 200 peak 28882 weight 0.10000E+01 Volume 0 69706E+03 ppml 2 188 ppm2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1) 10000E+01 volume 0 19745E+02 ppml 2 188 ppm2 1	boid 115 and name (HA )) 2.010 peak 2891aw HO21k ( 10000E+01 Volume 0 51456E+02 ppml 4 807 ppm2 1	50.05 6.6 and name HD11) 1.0000 pask 2893 2.8451t 0.10000E+01 volume 0.338498+02 ppml 1.549 ppml 3	Months 56 and name HD14) 2 and name HD14   1 548 ppm2 4 2 and ppm K28412 ppm1 1 548 ppm2 4	1 ord name HEA ) 1 000005.01 volume 0.323468.03 ppml 1 848 ppm2 2 0.323468.03 ppml 1 848 ppm2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	HEF ) HB2 ]) weight 0 l0000E+01 volume 0 22344E+04 ppml 1 848 ppm2 1

2.823			7 486	4 646	7.497	4 4 4	7 421	7 421	7 261	4 154	3 527	3.279	3.104	1 146	4 533	7 772			4 678	3 570	7 780	7.888	4 679	
4.653 ppm2	900	1	2 289 ppm2	486				5 758 ppm2 5 758 ppm2 6 688 ppm2			2mdd 889 9		5 758 ppm2		8 129 ppm2				6.872 ppm2	6.874 ppm2	7 293 ppm2	7.293 ppm2	7 292 ppm2	
.68767E+02 ppml			8		34749E+03	89147E+02	62066E+02	31210E+02 ppml		9			0.14809E+03 ppml		0.14248E+02 ppm1			20+950+70	12803E+03 ppm1	22980E+03 ppml	0.604908+02 ppml	0.16842E+03 ppm1	0.50708E+02 ppml	Tuxld 70+31-010c 0
0.10000E+01 volume 0.	!	aun ToA	volume	volume	10000E+01 volume	volume	volume	11000E+01 volume 0	volume	volume	volume	volume	0 11000E+01 volume 0	volume	0.11000E+01 volume 0	volume		10A	11000E+01 volume 0	0.11000E+01 volume 0	11000E+01 volume 0	0.11000E+01 volume 0		o Tronop+or Agrame o
2.300 peak 30722 weight	(30772) segid "BrD" and resid 104 and name HB1 )) segid "BrD" and resid 105 and name HD*)	2 Jul peak SU//Z Weight. sid 19 and name HB1 )) sid 15 and name HE's )	peak 30922 weight and name HB2 )) and name HA ))	1 300 peak 30962 weight esid 22 and name HG )) esid 74 and name HE*)	00 peak 31062 weight 54 and name HG1 )) 77 and name HA ))	2 400 peak 31162 weight ceid 46 and name HD* ) ceid 88 and name HE* )	2 100 peak 13 weight eaid 47 and name HD*) esid 47 and name HE*)	2 300 peak esid 46 and esid 88 and	esid 46 and name esid 47 and name	esid 46 and name HD*) esid 46 and name HA ))	esid 46 and name HE4) esid 88 and name HB1) 1 300 meak 103 Weight	send 46 and name HE' ) send 46 and name HB1 ) 2 200 peak 113 weight	esid 46 and name HD*) esid 46 and name HB2)) 1.600 peak 133 weight	seid 46 and name HE* ) seid 50 and name HOI*) 2 200 peak 153 weight	eard 28 and name HE1 }) eard 28 and name HA }) 1 900 peak 273 weight	said 67 and name HDt) seid 68 and name HDt) 2 200 neak 333 weight	eeld 67 and name HDV)	z.ouo peak 343 Weight resid 67 and name HDV ) resid 67 and name HA )}	1 600 peak esid 67 and	1 300 peak 373 weight ceald 67 and name HEt)	peak 383	1,400 peak 403 weight ceald 67 and name RE% )	2 200 peak 433 Weight resid 47 and name HBt )	2 100 peak 403 Weight
2.6	30   1884   30   30   30   30   30   30   30   3	3 2 ASSI (899 (899 )	3 2 ASSI {30 (2 eg)	ASSI (31 (31) (31) (31) (31) (31) (31) (31)	2 5 ASSI (31 ( 631	3 1 ASSI ASSI Bee	2 S S S S S S S S S S S S S S S S S S S	3 2 ASSI { eeg ( eeg (	ASSI (	) ISON Pag ) Pag )	Day ( ) ISSY ( )	ASSA ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	ASSI ( ang ( )	ASSI ( 805 (	ASSI (	ASSI ( Bec ( Bec ( Bec ) )	ASSI ( 865	2.6 ASSI { 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ASSI (	ASSI ( eec (	ASSI ( 960 (	A551 ( Bec ( Bec)( Bec ( Bec)(	S NSI (	ASSI (
		990	390	7 488	7 488	5 387	5 395	1 550	1 551	4.011	3 706	7 891	7 835	1 489	7 722	3 028	2,206	2 206	4 591	4 590	2 968	1 588	2 964	
		3 631 ppm2	3 673 ppm2	3 673 ppm2	3.631 ppm2	S 001 ppm2	2 634 ppm2	2 633 ppm2	2 701 ppm2	4 459 ppm2	1 896 ppm2	1 946 ppm2	1 946 ppm2	2 190 ppm2	1 891 ppm2	0,760 ppm2	1 892 ppm2	3 078 ppm2	3 029 ppm2	3 177 ppm2	1 994 ppm2	4 656 ppm2	4 653 ppm2	
		0.19067E+02 ppml	0 12737£+02 ppm1	0 17551E+03 ppm1	0 20920E+03 ppml	0 404278+02 ppm1	0 75028E+01 ppml	0 23433E+02 ppml	0 22947E+02 ppml	0 721298-01 ppml	0 91298E+02 ppml	0 12243E+03 ppml	0 968638+02 ppml	0 45416E+02 ppml	0.30501E+02 ppm1	0 52723E+02 ppm1	0 49767E+03 ppml	0 29716E+03 ppm1	0 11843E+03 ppm1	0 25593E+02 ppm1	0 67000E+02 ppml	0 34166E+02 ppm1	0 260148+02 ppml	
		0.10000E+01 volume (	0 10000E+01 volume	0 10000E+01 volume	10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0.10000E+01 volume	0 10000E+01 volume	10000E+01 volume	10000E+01 volume	10000E+01 volume	0 10000E+01 volume	o lobook+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0.10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	10000E+01 volume	100008+01 Volume	
	and name and name	esid 66 and name HD2 )) esid 65 and name HA )) 1 500 peak 29832 weight	esid 66 and name HD1 )) esid 65 and name HA )) 1 200 peak 29842 weight		Segid *BkD * and reald 66 and name HD2 )) segid *BkD * and resid 15 and name HB1 ) 2 700 1 800 peak 29882 weight 0 (2912)	resid 66 and name HA )) resid 65 and name HA )) 2 000 peak 29912 weight 0	esid 66 and name HB2 )) esid 65 and name HA }) 0 800 peak 29922 weight	resid 66 and name HB2 }} resid 69 and name HG1%} 1 600 peak 29982 weight	esid 66 and name HB1 )) esid 69 and name HG1%) 1 600 peak 29992 weight	negid "BrD" and reald 51 and name HA )) oegid "BrD" and reald 53 and name HD2 )) 5.500 0.000 peak 30022 Waldht 0 {30062}	segid "BED" and reald 103 and name HBZ )   segid "BED" and reald 82 and name HBL )   100 2 400 peak 30062 weight 0 [10112]	and name and name sak 30132	2 400 peak 30142 weight	and name HD2*) peak 30182 weight and name HG1 }}	t 800 peak 30262 weight	Weight	resid 103 and name HBZ )) resid 99 and name HBY ) 1 300 peak 30362 weight	HEI )) HB4 ) Weight	esid 109 and name HE2 )) esid 106 and name HA )) 2.200 peak 30492 weight	1 (1902) ( 1902) and resid 109 and name HEI ) ( 1903) ( 1903) and resid 106 and name HA ) ) ( 1903) ( 1900) ( 1900) ( 1900)	ceid 109 and name HD1 )) ceid 112 and name HG1 )) 2 200 peak 30532 weight	[30662] [eggid "BrD" and read 109 and name HA ]) Aegid "BrD" and read 21 and name HG2t) 3 600 3 200 1 900 peak 30682 weight 0	109 and name 112 and name 30 peak 30702	resid 109 and name HA ))

7.896 ppm2	7 478 ppm2	7 478 ppm2	7 617 ppm2	7 619 ppm2	7 618 ppm2	7 757 ppm2	7 013 ppm2	Zwđđ 889 9	5 758 ppm2		8 124 PRINGS		5			6 1			7 413 ppm2	7 711 ppm2		7 803 ppm2	7 803 ppm2	
.29123E+02 ppm1	. 22641E+02 ppm1	35285E+03 ppml	23591E+02 ppml	97461E+03 ppm1	. 21009E+02 ppm1	40155E+03	0.10557E+03 ppml	0 48608E+02 ppml	0 36832B+02 ppm1	66486E+02		004999089			185205+02	112158+03	0 0 11257E+02 ppm1		0 21121E+02 ppm1	0 40018B+03 ppm1		0 14816E+02 ppml	0.38863E+02 ppml	
0.11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	0 11000E+01 volume 0	0.11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume 0	11000E+01 volume (	0 10000E+01 volume (	10000E+01 volume (	volume	•mil Con	9			eun Tox	Volume	10000E+01 volume		10000E+01 volume	0 10000E+01 volume		0.10000E+01 volume	10000E+01 volume	
peak 1583 weight	and name HB2 )) peak 1793 weight 0	and name HDt ) and name HA ) } peak 1833 weight 0	and name HE's ) and name HA )) peak 1883 weight	and name HE* ) and name HH2 )} peak 1943 weight	and name and name peak 1963	and name and name peak 2023	and name and name peak 2133	and name HE% ) and name HG1%) peak 163 weight	and name and name peak 183	and name HE1 )) and name HG2%) beak 253 Weight	and name HE1 )) and name HD1%)	bue bue	and name	Jame	793 Weight hame HDt )	peak 1113 weight and name HD* ) and name HB2 )]	eak 1133 Weight and name HD&) and name HD2%)	and name	and name HE% ) and name HB1 )) peak 1353 weight 0	and name HDt ) and name HB1 }) eak 1423 weight	and name	and name RD% ) and name RB1 )) aak 1613 weight	77 and name HD% ) 33 and name HA }) 5 peak 1663 weight G	106 and name HGt ) 75 and name HA ))
2.300	2.100	1 "BrD " and resid 95 1 "BrD " and resid 95 1 100 1 100	33} 1 "BrD " and resid 95 1 "BrD " and resid 95 0 2 900 2 100	13} 1 "BrD " and resid 95 1 "BrD " and resid 32 0 0 800 0 800	33} 1 "BrD " and resid 95 1 "BrD " and resid 32 0 2 900 2 100	13   14   15   15   15   15   15   15   15	ASSI { 2133} ( segid "BrD " and resid 82 ( segid "BrD " and resid 82 ( 2 600 1 700 1 700	{ 163} segid "BrD " and resid 46 segid "BrD " and resid 38 3 000 2 200 2 200	83} 1 "BrD " and resid 46 1 "BrD " and resid 50 0 2 400 2 400	{ 253} { segid "BrD " and resid 28 segid "BrD " and resid 101 2 600 2 000 r	d "BrD " and resid 28	1 88	ē ē	0 0	0 3 100 2 000 13) d "BrD" and resid 68 d "BrD" and resid 62	0 1700 1700 33} d BrD " and resid 68 d BrD " and resid 62	2 800 2 000 2 000 P I { 1173} segid "BrD " and resid 105 segid "BrD" and resid 102 segid "BrD" and resid 102	d "BrD " and resid 105 d "BrD " and resid 102	53} d "BrD " and resid 88 d "BrD " and resid 88 0 2 900 2.100	{ 1423} segid "BrD " and resid 96 segid "BrD " and resid 100 3.100 2 400 2 400 p	681	segid "BrD " and resid 107 ( segid "BrD " and resid 106 3 600 3 200 1 900 pc	9gid "BrD " and resid 107 9gid "BrD " and resid 103 100 2 400 2 400 p	rD * and resid
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,	7 246 F	7 942 E	8 455 [	8 456 E	7.013	7 664 1	7 664 1	7 664 8	7 478 1	7 478	7 850	7 850	7 850 1	757 7	7 618	7 616	7 616	7 410	7 618	7 616	7 711	7.712	7.708	
	0.27001E+02 ppml	0.29622E+03 ppml	0 10449E+03 ppml	0.53265B+02 ppml	0 15470E+03 ppml	0 61725E+03 ppm1	0 19360E+03 ppm1	0 48925E+03 ppml	0 17907E+02 ppm1	0 77515E+01 ppml	0 39808E+02 ppm1	0 57511E+02 ppm1	0 51154E+02 ppm1	0 59736E+03 ppm1	0 62764B+02 ppml	0 38726E+02 ppm1	0 31179E+03 ppm1	0 64049E+02 ppml	0 38562E+02 ppm1	0 21010E+03 ppm1	0 18299E+03 ppm1	0 196878+03 ppml	0 28381E+03 ppml	
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and name HET )	peak	and name peak 503 and name	and name peak 543 and name	and name	and name peak 603	and name	peard year	and name peak 873	and name peak 893	and name and name peak 903	and name and name peak 993	and name and name peak 1003	and name and name peak 1063	and name and name peak 1213	and name and name peak 1263	and name and name pcak 1283	and name and name peak 1303	and name and name peak 1313	and name and name peak 1323	8 and name HDt ) 8 and name HBI )) 0 peak 1363 weight	6 and name HDt ) 6 and name HA )) 0 peak 1403 weight	6 and name HD% ) 6 and name HB1 )) 0 peak 1413 weight	4 and name HD% ) 1 and name HA )) 0 peak 1503 weight	07 and name HEt ) 07 and name HB1 ))
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3 708	3 571	7.076		3.304	4 88 86		1 706	1.545	4 814	2 781	2 211	2 802	4 439	7 927	7 793	2 994	3 154	1.797	-0 311		
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2 and name HD <sup>§</sup> } 2 and name HB1 }) 0 peak 3204 weight	and name and name peak 3214	and name and name peak 3304	and name and name and name and name	peak and and peak	18me 1064	z 100 peak 84 weight 2 100 peak 84 weight resid 67 and name HD# ) zesid 62 and name HA ))	and name	and name	and name and name	and name and name	and name and name peak 504	107 and name HZ )) 79 and name HB1 )) 00 peak 564 weight	resid 107 and name HZ )) resid 79 and name HA )) 2 200 peak 624 weight	14me 14me 634	and name and name	resid 107 and name HZ )) resid 79 and name HG1 )) 1 800 peak 664 weight	32 and name H22 )) 94 and name HG1 )) 00 peak 694 weight	and name and name	and name	peak 724 and name and name	peak 804 and name and name
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volume 0.13649E+02 ppml 7.617	Volume 0 27238E+02 ppml 7 478 ppm2 4	volume 0 27537E+02 ppml 7.479 ppm2 3	Volume 0 179855+02 ppm1 7 478 ppm2 1 volume 0 179855+02 ppm1 7 618 ppm2 4	volume 0 52192E+01 ppm1 7 757 ppm2 7	ppm1 7.013 ppm2 7	970 ppm2 3	7 970 ppm2 3	7 2mdd 006	2 800 ppm2	ppm1 7 778 ppm2 5	7 778 ppm2 3	7 612 ppm2 7	8 491 ppm2	a 490 ppm2 4	7 781 ppm2 4	7.724 ppm2 7	7 726 ppm2	ppm1 7 714 ppm2 4	689 ppm2	ppml 7 611 ppm2 4	7 539 ppm2 7
peak 1753 weight 0.10000E+01 Wolume 0.13649E+02 ppml 7.617	and name HDV ) and name HA )) ppak 1803 was supply 0 100008+01 volume 0 17238E+02 ppml 7 478 ppm2 4	And have INT ))  peak 1853 weight 0 10000E+01 volume 0 27537E+02 ppml 7.479 ppm2 3 and name HDF ) and name HDF )	peak 1863 weight 0 100000E+01 volume 0 30330E+02 ppml 7 478 ppm2 1 and name REV ) and name REV ) and name (R.V.) ) peak 1903 weight 0 100000E+01 volume 0 1798EF+02 ppml 7 618 ppm2 4	name HHZ )) same HDb ) 2003 Weight 0 10000E+01 volume 0 52192E+01 ppml 7 757 ppm2 7	Anname HZ ) ) 2143 weight 0 10000E+01 volume 0 11127E+02 ppml 7.013 ppm2 7 name HEA )	1183 Weight 0 10000k+01 Volume 0 12005k+02 ppm1 / 2570 ppm2 3 4 Weight 0 10000k+01 Volume 0 953568+03 ppm1 7 970 ppm2 3	and name HD4 ) and name HB2 ) ) ocak 64 weight 0 10000E+01 volume 0 78871E+03 ppml 7 970 ppm2 3	and name HD4 ) and name HD4 ) peak 144 weight 0 10000E+01 Volume 0 18744E+04 ppm1 6 900 ppm2 7	and name HDV ) and name HDV ) and name HDZ )) peak 214 Weight 0.100008.01 volume 0 10973E+04 ppm1 6 899 ppm2 2	and hamma HDF ) and hamma HDF ) prest 744 )) prest 714 weight 0 10000E+D1 volume 0 56412E+03 ppml 7 778 ppm2 5	and fines HIS ) and fines HIS ) and fines HIS )  and fine	and name HEF ) and name HEF ) and a weight 0 100005+01 volume 0 177526+04 ppml 7 612 ppm2 7	and mane ID.) )	And have HH1 )	and name HE1)  each lose4 to 10000E+01 volume 0 91411E+02 ppml 7 781 ppm2 4 and name HE4)	and name HSt )  and name HSt )  7.724 ppm2 7  2.87448+04 ppm1 7.724 ppm2 7  2.87448+04 ppm1 7.724 ppm2 7	and name HES )   and HES )   page 18   19   19   19   19   19   19   19	and have HOV ) and have HOV ) peak 2024 Weight 0.10000E+01 volume 0 48715E+03 ppml 7 714 ppm2 4	and name HDV) and name HBV ) peak 2084 weight 0.10000E+01 volume 0 28924E+04 ppml 7 689 ppm2	And names HEL ) and names HEL ) peak 2474 weight 0.10000E+01 volume 0 \$6800E+02 ppml 7 611 ppm2 4	and name NEF ) and name NDP ) and name NDP ) peak 2554 weight 0.100002401 volume 0 18278E+04 ppml 7 539 ppm2 7
1.800 peak 1753 weight 0.10000E+01 volume 0.13649E+02 ppml 7.617	eaid 95 and name HDF)  - cato 68 and name HA ))  - cato peak ison weight 0 100008+01 volume 0 17238E+02 ppml 7 478 ppm2 4	immed [15] ) 1853 weaght 0 10000E+D1 volume 0 27537E+02 ppml 7.479 ppm2 3 name HD1 )	2 300 peak 1863 weight 0 10000E+01 velume 0 30330E+02 ppml 7 478 ppm <sup>2</sup> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	cead 32 and mame HHZ )) cead 35 and mame HHZ )) 1 200 peak 2003 weight 0 10000E+01 volume 0 52192E+01 ppml 7 757 ppm2 7	HZ )   HTM   7.013 ppm2 7   HTM   7.013 ppm2 7   HTM   1.013 ppm2 7   HTM   1.013 ppm2 7   HTM   1.013 ppm2 7   HTM   1.013 ppm3 7   HTM   1.013   HTM   1.0	2 000 pask 2183 weight 0 1000Uk+01 Volume U 1900Sk*02 ppmil 7 370 ppmil 1 200 peak 54 weight 0 1000OK+01 volume 0 95356E+03 ppml 7 970 ppml 3	resid 47 and name HDt )   resid 47 and name HB2 )     1 300 peak 64 weight 0 10000E+01 volume 0 78871E+03 ppml 7 970 ppm2 3	seard 67 and name HDM ) seard 67 and name HER ) 1 000 peak 144 weight 0 10000E+01 Volume 0 18744E+04 ppm1 6 900 ppm2 7	and name HDV ) and name HDV ) and name HDZ )) peak 214 Weight 0.100008.01 volume 0 10973E+04 ppm1 6 899 ppm2 2	esid 68 and hame HDF) and 68 and hame HDF) 1400 peak 274 weight 0 10000E-01 volume 0 56412E+03 ppml 7 778 ppm2 5	seria de dand hamme HDT ) seria de dand hamme HBT2 ) 1300 geneta (234 west) 1300 geneta (234 west) 1300 geneta (234 west) 1300 geneta (234 west)	Fail de and name HFF.)  1 000 peek 354 weight 0 10000E+01 volume 0 17752E+04 ppml 7 612 ppm2 7 7 100 ppm2 7 10	9943 12 And Amerik 13. ) 2 200 pair, 44 washir 0 19000E(01 volume 0 17621E+03 ppml 6 491 ppm2 2 2 0 ppm 4 4 washir 0 19000E(01 volume 0 17621E+03 ppml 6 491 ppm2	And have HH1 )	and name HE1)  each lose4 to 10000E+01 volume 0 91411E+02 ppml 7 781 ppm2 4 and name HE4)	and name HSt ) and aname HSt ) and aname HSt ) and the state to 100005+01 volume 0 297445+04 ppm1 7.724 ppm2 7 peak 1334 seaght 0 100005+01 volume 0 297445+04 ppm1 7.724 ppm2 7	en.16 and name HB2 )) 1.30 peak 1914 washt 0 19000E+01 volume 0 99570E+03 ppm1 7 726 ppm2	esid 34 and name HDV )  Esid 34 and name HDV )  1 600 peak 2024 verght 0.10000E+01 volume 0 48715E+03 ppml 7 714 ppm2 4	easid 15 and name HEV ) 60,900 peak 2084 weight 0.10000E+01 volume 0.28924E+04 ppml 7 689 ppm2	ander HEB 1) 2474 weight 0.100006:01 volume 0 868036:02 ppml 7 611 ppm2 4	name MSt )  Dame MSt )  1.0554 weight 0.100002+01 volume 0 18278E-04 ppml 7 539 ppm2 7

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1 543	7 901	3 920	1 641		1 333	1 268	3 919	1 706	3 106	2 374	2 274	1 496	3 308	1 580	1 266	0 780	3 919	3 708	7 940	1 545	3.075
7 781 ppm2	7.719 ppm2	7 714 ppm2	7 689 ppm2	646	7 647 ppm2	7 647 ppm2	7 644 ppm2	7 616 ppm2	7 611 ppm2	7 611 ppm2	7 611 ppm2	7 539 ppm2	7 535 ppm2	7.541 ppm2	7 529 ppm2	7 530 ppm2	7.524 ppm2	7.524 ppm2	7 513 ppm2	7 316 ppm2	7 270 ppm2
0 42209E+03 ppm1	35620E+03 ppm1	0 18188E+03 ppm1	44171E+03 ppm1	17361E+03	21480E+03 ppml	42175E+03 ppm1	. 80420E+02 ppml	. 29483E+02 ppm1	16268E+03 ppm1	54543E+03 ppml	0 40048E+03 ppm1	0 18991E+03 ppm1	0 10679E+03 ppml	0 218195+04 ppml	0 54850E+03 ppm1	0 46858E+03 ppm1	0 86816E+03 ppml	0 63063E+03 ppm1	0 62229E+02 ppm1	0 28072E+02 ppm1	0 17782E+03 ppm1
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68 and name HDV) 73 and name HD1V) 00 peak 1794 weight 0	and name HD* ) and name HZ )} peak 1904 weight 0	and name HDt ) and name HBl )) peak 1954 weight and name HDt )	and name peak 2124 and name	peak 2164 weight and name HE\$ ) and name HE\$ ) peak 2224 weight	and name and name peak 2234	and name HEt ) and name HB1 )) sak 2244 weight	resid 78 and name HG )) resid 78 and name HG )) resid 106 and name HEF) resid 106 and name HBL )) 2 100 peak 2264 weight 0	lame HEt ) lame HG2t)	resid 96 and name HE\$ )   resid 86 and name HE1 )} 2 200 peak 2484 weight 0	resid 106 and name HE% ) resid 21 and name HG11)) 1 600 peak 2504 Weight 0	and name HE% ) and name HG )) aak 2514 weight	me HEt ) me HD2t) 74 weight	106 and name HD*) 21 and name HG11)} 300 peak 2614 weight 0	ume HD4 ) ime HG2k) iS4 weight	resid 74 and name HEt )   resid 78 and name HG )    1 600 peak 2674 weight C	resid 74 and name HE%     resid 78 and name HD1%     1 600 peak 2694 weight 0	resid 106 and name HDt     resid 106 and name HB1  )   1 300 peak 2754 weight (	resid 106 and name HD%     resid 106 and name HB2      1 400 peak 2774 weight (	resid 106 and name HD*) resid 107 and name HE*) 2 100 peak 2834 weight	67 and name HE% ) 173 and name HD1%) 500 peak 3074 weight	147 and name HE# ) 146 and name HB2 )) 200 peak 3144 weight
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7.957 ppm2 4.976	7 956 ppm2 4.361	ppm2 3	7 926 ppm2 3 142	7 900 ppm2 1 967	7.899 ppm2 4 001	7 889 ppm2 4 391	7 892 ppm2 3 172 7 892 ppm2 1 496			7 808 ppm2 1 268	7.810 ppm2 1 153	7 806 ppm2 1 399	7 803 ppm2 4 440	7 798 ppm2 3 741				7 784 ppm2 4 016	7 778 ppm2 2 487	7 780 ppm2 1 088	
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poak 854 weight 0.100005401 volume 0.192205403 ppml 7.957	mesa, 2 and name HA )) 1.700 peak 864 weight 0.10000E+01 Volume 0 35337E+03 ppml 7 956 ppm2 884 32 and name HB3 ))	HRB1 )) weight 0 10000E+01 volume 0 24249E+03 ppm1 7 956 ppm2 3 HRB )	2 200 peak 864 weight 0 100008+01 volume 0 17368-03 ppm1 7 925 ppm2 5 2 200 peak 2 964 weight 0 100008+01 volume 0 17368-03 ppm1 7 926 ppm2 1.600 peak 1024 weight 0.100008+01 volume 0 464638+03 ppm1 7 926 ppm2 1.	### 4 and name HZ }}  **Table and name HB }}  **Table	ceald 34 and name Hz. )) 2 200 peak 1154 weight 0.10000E+01 volume 0 95962E+02 ppml 7.699 ppm2 4 2 200 peak 1154 weight 0.10000E+01 volume 0 95962E+02 ppml 7.699 ppm2 4 2 200 peak 1154 weight 0.10000E+01 volume 0 95962E+02 ppml 7.699 ppm2 4	ceald 19 and name HA ))  1 300 peak 1134 weight 0 10000E+01 volume 0 64240E+03 ppm1 7 889 ppm2 4  1 300 peak 1134 weight 0 10000E+01 volume 0 64240E+03 ppm1 7 889 ppm2 4  2 and name HEb )	1224 weight 0 100008+01 volume 0 130208+03 ppml 7 692 ppm2 3 name HTS1) 1314 weight 0 100008+01 volume 0 239328+02 ppml 7 692 ppm2 1	equal 32 and name HE2 )) equal 31 and name HE2 )) 2 300 peak 1344 weight 0 100005+01 volume 0 10742E+01 ppml 7 956 ppm2 2	acaid 32 and name HE3 )) eaid 32 and name HE3 )) e 0 800 peak 1434 weight 0 10000E+01 volume 0 190856F+04 ppml 7 812 ppm2 7	and nowe HTSTs) eaid 102 and nome HTSTs) 2 100 peak 1654 weight 0 10000E+01 volume 0 19468E+03 ppml 7 808 ppm2 1	0 10000B+01 volume 0 234448+03 ppml 7.810 ppm2 1	assid 107 and hame H114) eatd 116 and hame H114) 1 700 peak 1474 weight 0.10000E+01 volume 0 16149E+03 ppml 7 006 ppm2 1	assid 107 mind name RDV ) 1 300 peak 1494 weight 0 10000E+01 volume 0 85611E+03 ppml 7 801 ppm2 4	0 100006+01 volume 0 86322E+03 ppml 7 798 ppm2 3	men HEV ) 64 weight o 10000E+01 volume O 16801E+03 ppml 7 724 ppm2 5	0 36507E+03 ppml 7 791 ppm2 7	им ни ). 134 метајн о 10000£-01 volume O 12008E+03 ppml 7 790 ppm2 2	ppm1 7 784 ppm2 4	778 ppm2 2	7 780 ppm2 1	0

1.544	4 993	7 517	3 790	1 085	1 081		0 733	1 609	1 601	1 074		0 723	1 608	1 592	1 066	0.691	0 727	1.072	1 603	208	520	9 4
7.714 ppm2	7 781 ppm2	7 802 ppm2	7 031 ppm2	7 888 t	4 029 ppm2		4 026 ppm2	4.023 ppm2	3 428 ppm2	3 430 ppm2		3 430 ppm2	8 179 ppm2	683	7 680 ppm2	7 690 ppm2	2 547 ppm2	2 548 ppm2	2 538 ppm2	848 Smoon	547	chart for
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204 weight	resid 34 and name HEt) resid 31 and name HA )) 1 600 peak 4264 weight 0	resid 107 and name HDt ) resid 106 and name HDt ) 2.000 peak 4304 weight 0	resid 82   and name HZ	resid 107 and name HBt) resid 78 and name HB2 ) 2 100 peak 4364 weight 0		and name and name and name	seld 38 and name HG2%) 1 700 peak 15 weight 0 seld 201 and name HA2 ))	and name HA1 )) and name HBV ) ak 25 weight	resid 201 and name HB2 )) resid 43 and name HB% ) 1 700 peak 35 weight 0	resid 201 and name HB2 )) resid 38 and name HG1%) 1 800 peak 45 weight 0	and name and name and name	resid 38 and name HG2t) 1 700 peak 55 weight 0 resid 201 and name HB1 ))	and name and name and name		resid 201 and name HD2 )) resid 38 and name HG1*) 1 800 peak 85 weight C	201 and name HD2 )) 38 and name HG2%) 00 peak 95 weight C	name HAt ) name HG2t) 105 weight	name HA% ) name HG1%) 115 weight	200 and name HAt ) 43 and name HBt ) 100 peak 125 weight (	HA C	HA*	145 lame
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	0 12400E+03 ppml 7 264 ppm2 2	0 109148+03 ppml 7.266 ppm2 2	volume 0 12188E+03 ppml 7 266 ppm2 2	volume 0 13715E+03 ppml 7 266 ppm2 1	10000E+01 volume 0 13023E+03 ppm1 7 261 ppm2		10000E+01 volume 0 15234E+03 ppml 7 069 ppm2 3	0 15995E+03 ppml 7.070 ppm2 3	0 67243E+03 ppml 7 070 ppm2	10000E+01 volume 0 65231E+02 ppm1 7.069 ppm2 7	volume 0 20065E+03 ppm1 7 067 ppm2 0	volume 0 11748E+03 ppm1 7 021 ppm2 1	volume 0 254076+03 ppml 7 017 ppml 0	volume 0 242798+03 ppml 7 005 ppm2 7	volume O 909855+02 ppml 7 005 ppm2	Volume 0.36097E+03 ppm1 7 005 ppm2	0 78199E+02 ppml 6 899 ppm2 1	volume 0 13088E+03 ppml 6 686 ppm2 4	volume 0 75575E+02 ppml 5 740 ppm2 1	volume 0 78758E+02 ppml 5 589 ppm2 4	+03 ppm1 5 577 ppm2 7	0 78719E+03 ppm1 5 547 ppm2 7
	name HDF ) 3224 weight 0.10000E+01 volume 0 12400E+03 ppml 7 264 ppml 2	mamme HDB) ) 3224 Weight 0 10000E+01 Volume 0 10914E+03 ppml 7.266 ppm2 2	name H04) 1254 weight 0 10000E-01 volume 0 12188E-03 ppml 7 266 ppm2 2	name HDP) 1264 weight 0 10000E+01 volume 0 13715E+03 ppml 7 266 ppm2 1	name ADt ) 3314 weight o 10000E+01 volume o 13023E+03 ppm1 7 261 ppm2	name HOY )  name HOY )  and HOY )	3)554 wagght 0 100008+01 volume 0 152348+03 ppml 7 069 ppm <sup>2</sup> 3 3)554 wagght 0 100008+01 volume 0 152348+03 ppml 7 069 ppm <sup>2</sup> 3 500mm HR J J	3364 weight 0.10000E+01 volume 0 1599E+03 ppml 7.070 ppm2 3 manne HEV ) Anne HEV ) Anne HEV ) Anne HEV )	name HD24) 3424 weight 0 100008+01 volume 0 67243E+03 ppml 7 070 ppm2	HEW ) 100008+01 volume 0 65231E+42 ppml 7.069 ppm2 7	name HEL) 31 Mee HDZH 0.10000E+01 Volume 0 20065E+03 ppml 7 067 ppm2 0	and name HD24) and name HD24) eak 3514 weight 0 100008+01 volume 0 11748E+03 ppml 7 021 ppm2 1	and name HIZ }} and name HIZ*} eak 3524 waight 0.10000E+01 volume 0.25407E+03 ppml 7.017 ppm2 0	and name HDF ) and name HDF ) eak 3574 wasght 0 10000E+01 volume 0 24279E+03 ppml 7 005 ppm2 7	and hame BN's ) And hame BN's ) peak 3654 weight 0 10000R+01 volume 0 90985E+02 ppml 7 005 ppm2 and hame BN's )	aid name HEP ) pack 1664 weight 0 10000E+01 Volume 0.36097E+03 ppm1 7 005 ppm2 and ames HDP )	and name NG2 ))  and All St weight 0 100008-01 volume 0 781998-02 ppml 6 899 ppm2 1 and name NG2 )	and name RA. ))  and name RA. ))  and name RA. ))  and name RA. ))	and name NGTM) peak 3944 weight 0 100005+01 volume 0 755755+02 ppml 5 740 ppm2 1	and name HA 7) and name HA 7) peak 4024 weight 0.10000E+01 volume 0 7875EE+02 ppml 5 589 ppm2 4	and name HDZ }} ard name HDZ }} peak 4054 weight 0 10000E+01 volume 0 24761E+03 ppml 5 577 ppm2 7	and name (M) ) and name (M) 1 paak 4114 eastalt 0 10000E+01 volume 0 78719E+03 ppml 5 547 ppm2 7
	rebeld 62 and name HDF) 2 400 peak 3224 weight 0.10000E+01 volume 0 12400E+03 ppml 7 264 ppml 2	148 2; and name HD1 ) 144 103 and name HB1 ) 2 300 peak 3234 weight 0 10000E+01 volume 0 109148+03 ppml 7.266 ppm2 2	1448 2 and name RD4 ) 1448 1 and name RB )) 2 300 peak 3254 weight 0 10000E-01 volume 0 12188E+03 ppml 7 266 ppm2 2	aid 82 and name HDt ) aid 103 and name HBZ )) 2 400 peak 1264 weight 0 10000E+01 volume 0 13715E+03 ppml 7 266 ppm2 1	1.46 2. and name HTBt) 1.41 102 and name HTBt) 2.400 peak 3314 weight 0 10000E+01 volume 0 13023E+03 pgm1 7 261 ppm2	ламе НОУ ) ламе НОУ ) ламе НВУ )	man John Barn, Marker 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 200 peak 3364 weight 0.10000E+01 volume 0 15995E+03 ppml 7.070 ppml 3 sind 82 and name HER!	sist d S and name KBt) sist d 102 and name KDth 1 400 peak 3434 weight 0 100008.01 volume 0 67243E.03 ppml 7 070 ppm2	besid 82 and name 1ER1 ) 2 solo past Added weight 0 10000E+01 volume 0 65231E+02 ppml 7.069 ppml 7	soid 82 and name HEN ) 12 100 posk 3464 4645 0 0 10000E+01 volume 0 20065E+03 ppml 7 067 ppm2 0	#sid 62 and name HD2*) 1 100 peak 3514 weight 0 100008+01 volume 0 11748E+03 ppml 7 021 ppm2 1	name HD34) name HD34) 3524 watghr 0.10000E+01 volume 0.25407E+03 ppml 7.017 ppm2 0	and name HDF ) and name HDF ) eak 3574 wasght 0 10000E+01 volume 0 24279E+03 ppml 7 005 ppm2 7	Baid 75 and hame BD: ) 5-81d 75 and hame BD: 0 7 005 ppm2 7.200 peak 3654 weight 0 100008-01 volume 0 90985E-02 ppm1 7 005 ppm2 6-41d 3 and asses HD: 1	aid name HEP ) pack 1664 weight 0 10000E+01 Volume 0.36097E+03 ppm1 7 005 ppm2 and name HDP i	usud 62 and name NG2 )) 2 100 peek 3754 weight 0 10000E+01 volume 0 78199E+02 ppml 6 899 ppm2 1	and name RA. ))  and name RA. ))  and name RA. ))  and name RA. ))	eard 18 and name HG18) 2.100 page 1 94 weight 0 100008+01 volume 0 75575E+02 pgml 5 740 ppm2 1	esis 2 x and name HD2 ))	resaid 26 and hame HD2 )) resaid 34 and hame HD2 )) 2 000 peak 4 onds weight 0 10000E+01 volume 0 24761E+01 ppml 5 577 ppm2 7	seatd 34 and name HA )) 1.100 pask 4114 weight 0 100008+01 volume 0 787195-03 ppml 5 547 ppm2 7

7 481	7 461	7 637	7.637	7 585	7 585	7.585	7 358	7,358	7 358	7 358	7 358
4.015 ppm2	3.429 ppm2	4.015 ppm2	3 429 ppm2	4 015 ppm2	3 429 ppm2	2 542 ppm2 4 019 ppm2	3.430 ppm2	3 430 ppm2	430	3 430 ppm2	3 430 ppm2
0.13924E+03 ppm1	0.152298+03 ppml	0 18465E+03 ppm1	0 13938E+03 ppm1	0.16075E+03 ppml	0 16293E+03 ppml	0.14049E+03 ppml 0.16796E+03 ppml	0 16763E+03 ppml	o 12000E+03 ppm1		0.12000E+03 ppml	0 12000E+03 ppml
11000E+01 volume 0	0.11000E+01 volume 0	0.11000E+01 volume G	0.11000E+01 volume 0	11000E+01 volume C	0 11000E+01 volume (	0 11000E+01 volume (0.11000E+01 volume (	0.11000E+01 volume (	0 11000E+01 volume (	.11000E+01 volume	11000E+01 Volume	0.110008+01 volume
HA2 )) HEV ) HA2 )) WEAGHT 0 WEAGHT 0	and reeld 59 and name H19 / and reeld 50 and name H11 /) and reeld 56 and name H15 /) 700 peak 26 weight and reeld 50 and name H18 /) And reeld 55 and name H19 /) And reeld 55 and name H19 /)	and resid 201 and name HA1 )) and resid 88 and name HDv ) 600 1 600 peak 36 weight and resid 201 and name HA2 )) and resid 89 and name HDv )	and resid 201 and name HB2 )) and resid 08 and name HPk ) 800 1.800 peak 46 weight and resid 201 and name HB1 )) and resid 68 and name HB1 ))	(§ 56) and read 201 and name HA2 )) segal "Arch" and read 95 and name HEM ) 2.600 1 700 peak 56 weight 0 56) 1 700 read 56 weight 0 56) and read 201 and mame HA1 )) segal "Arch" and read 501 and name HA1 ))	resid 201 and name HB1 )) resid 95 and name HB\$ ) 1.700 peak 66 weight resid 200 and name HA\$ )	eald 95 and name HE't ) 1 800 peak 76 weight celd 201 and name HA! ) celd 8 and name HE't ) 1 700 peak 86 weight	d name HA2 )) d name HE% ) d name HB2 )) d name HE% ) 96 weight	esid 201 and name HB1 )) esid 88 and name HE*) esid 200 and name HA*) 1 800 peak 7 weight	1 resid 200 and name HA% ) 1 resid 201 and name HA1 ) 1.800 peak 17 weight 1 resid 201 and name HB2 ) 3 resid 201 and name HB2 )	and resid 201 and name ard resid 201 and name 600 1 800 peak 37	93) 704 and reald 201 and have HB2 )) segid 764 and reald 201 and new HN )) egid 764 and reald 201 and new HX )) egid 764 and resid 201 and new HX )) 2 70
ASSI (*)	ASSI (()) ())	ASSI ( { ( ) } )	ASSI (( ( ( ( ( ( (	ASSI (( ( ( ( ( ( (	ASSI (( ( ) ASSI	ASSI	OR (	OR (	ASSI ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (	OR {	OR (

# Ambiguous NOE-derived Inter-proton Distance Restraints

1	3 430		7 778			4 801		3 671		2 728					2 497		2 294			7.515				
	7 738 ppm2		9 740 ppm3			8 669 ppm2		8 673 ppm2		7 977 ppm2					8 612 ppm2		9 107 ppm2			8 544 ppm2				
	02 ppm1		03 ppm1			03 ppm1		12 ppml		13 ppm1							ppm1							
	0 35526E+02 ppm1		0 204178+03	•		0 15089E+03		0 45845E+02 ppml		0 17645E+03 ppm1					0 12021E+02 ppm1		0 631788+01			0 12608E+03 ppml				
	0.10000E+01 volume		E+01 volume			0 10000E+01 volume		0 10000E+01 volume		0.10000E+01 volume					0 10000E+01 volume		0 10000E+01 volume			0 10000E+01 volume				
		22.	c 0 10000E+01		_															0 10000E				
	name HN )} name HG1 }) 311 weight	name HN ))	dame HD 1)	name KN ))	name HN ))	name HN )) name HA )) 731 weight	name HN ))	name HN )) name HB2 )) 781 weight	name RN )) name HB2 ))	name HN )) name HB1 )) 831 weight	name HN )) name HB2 )}	name HN )) name HB2 ))	name HN )) name HB1 ))	name HBI ))	name HN )) name HB2 )) 1051 weight	name HN )) name HB2 ))	name HN )) name HG ))	name RN )) name HD1 )}	ne HN ))	ne HN )) ne HE22))	ne HN ))	ne HN ))	e HN ))	e HN ))
	and r and r peak		and r eak	and	and	and and eak	and	and and peak	and	and and peak	and	and na	and	and	and and peak	and	and and peak	and name	and name	sid 21 and name sid 24 and name 2 100 peak 1551	and name	and name	and name	and name
	res	resid 32	rea	resid 106	resid 106	2 5	resid 100	resid 97 resid 98 1 500	resid 97	resid 96 resid 97 2.300	resid 78 resid 79	resid 77 resid 79	resid 96 resid 92	resid 78 resid 79	resid 76 resid 73 0.500	resid 76	resid 75 resid 18 0.000	resid 75 resid 72	resid 98	resid 21 resid 24 2 100	resid 21	resid 109 resid 106	resid 64	resid 26
	"BrD " and "BrD " and	segid "BrD " and segid "BrD " and { 391}	segid "BrD " and 3 100 2 400	55	"BrD " and "BrD " and	"BrD " and "BrD " and 2.700	segid "BrD " and eegid "BrD " and	segid "BrD " and r segid "BrD " and r 4.000 4 000	segid "BrD " and	"BrD " and "BrD " and 2 600	"BrD " and "BrD " and	"BrD " and	"BrD " and	BrD " and	segid "BrD" and resid segid "BrD" and resid 5 000 \$ 000 0.5	"BrD " and resid 76	BrD " and BrD " and 5 500	"BrD " and	BrD * and BrD * and	Begid "BrD " and resid Begid "BrD " and resid 3 400 2.900 2.1551)	"BrD " and "BrD " and	"BrD " and	and and	BrD " and BrD " and
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2 672	3 671		2.954		F 00 F	2 967	4. 48 88		4 934		4 900		2 969				2 465		2.204		3 072
9 196 ppm2	7 763 ppm2	:	8 794 ppm2		Zwdd coo o	8 802 ppm2	8 810 ppm2		9 156 ppm2		8 661 ppm2		8 496 ppm2				9 133 ppm2		8 168 ppm2		8 574 ppm2
0.12549E+03 ppm1	0.147538+03 ppm1		0 41938E+02 ppm1			0 14859E+03 ppml	0.67241E+02 ppm1		0 58619E+02 ppm1		0.24821E+03 ppm1		98690E+02 ppm1				0 59139E+02 ppm1		0 16212E+03 ppm1		0.12194E+03 ppml
10000E+01 volume	10000E+01 volume		volume	See to appoor		volume	10000E+01 volume 0		10000E+01 volume 0		10000E+01 volume 0		0 10000E+01 volume 0				volume		volume		10000E+01 volume 0.
weight 0 1000	\$22 22 \$22 22	22 22		22 22	22 2	HG2 )) Weight 0 l0000E+01 HN 1) HG2 ))	•	22	9 3 3	22	0	==	22 ¥	22	22	22	)) )) ht 0 10000E+01	22	)) )) jht 0.10000E+01	22	۰
peak 1781 we.	and name HN and name HB1 and name HN s and name HB2 peak 2721 weig	and name HN and name HB1 and name HB and name HB2	name name 3261	and name HN and name HB1 and name HN and name HG1	name	and name HN )) peak 3371 weight and name HN 1) and name HN 1)	name name 3401 name	and name HN and name HA	and name HB1 )) peak 3671 weight	and name HN and name HA	and name HN )) and name HA }) ak 3841 weight	and name HN and name HB	and name HN )) and name HBI )) ak 3911 weight	and name HN	and name HN and name HG1	and name HN and name HB1	and name HN )) and name HB )) ak 4131 weight	and name HN and name HB1	name HN name HD1 6751 we19	and name HN and name HB2	and name HG2 )) and name HG2 )) ak 6861 weight
2 100	resid 56 resid 56 resid 10 resid 10 2 200	resid 104 resid 107 resid 104	resid 16 resid 13	resid 11 resid 11 resid 13 resid 13	resid 14	resid 13 2 200 2 200 resid 14 resid 14	resid 13 1 700 pe resid 11 resid 14	resid 14 resid 16	resid 10% resid 30 1.700	resid 102 resid 100	resid 103 resid 100 2 200 pe	resid 40	resid 59 resid 57 2 000 pe	resid 59	resid 31 resid 29	resid 59 resid 55	resid 25 resid 21 1.700 pe	resid 25 a	resid 111 resid 111 2.300 pe	resid 111 a	resid 21 and resid 24 and 2 100 peak
	segid "BID" and [ 2721] segid "BID" and segid "BID" and segid "BID" and segid "BID" and 2700	segid "BrD " and aegid "BrD " and 2721} segid "BrD " and segid "BrD " and	Bro .	segid "BYD " and segid "BYD " and f 3361} segid "BYD " and segid "BYD " and 100 4 100 4 100	361} egid "BrD " and egid "BrD " and 3371}		101} 1d "BrD " and 1d "BrD " and 20 3 600 1, "BrD " and 1d "BrD " and	segid "BrD " and segid "BrD " and { 3671}	id "BrD " and id "BrD " and 3 600	"BrD :	d "BrD " and d "BrD " and lo 2 200	d "BrD " and d "BrD " and	d "BrD" and d "BrD" and 0 3 100	d BrD and	d *BrD * and d *BrD * and	d "BrD " and d "BrD " and 31}	d "BrD " and d "BrD " and 0 3 600	"BrD " and "BrD " and	"BrD " and "BrD " and 2 600	arb and arb and	"BrD " and "BrD " and 2 900
	(( segid (( segid ASSI ( 272) ( segid ( segid 3 300		ASSI { 3261 (( segid (( segid 4 100 OR { 3261}		OR ( 3361) (( segld (( segld ASSI ( 3371			OR { 3403 (( segs ( segs ASSI { 36		-==	({ segid *B (( segid *B 3 000 OR { 3841}				((segid ((segid OR (3911)	<sub>H</sub>	(( segid "E (( segid "E 3 800 OR ( 4131)		- 8 8 6 4		

1 674	2.008	2 814			2 747	2,631	4 80 8 80 S		4 426	2 178	2.294	1 805
8 743 ppm2	8 743 ppm2	8 564 ppm2			10 051 ppm2	0 20	6 teb ppm4		999	8 667 ppm2	8 487 ppm2	8 487 ppm2
0 131195+03 ppm1	0.45211E+02 ppm1	0 70210E+02 ppml			0 12911B+03 ppm1	o selbise+02 ppml	0 112798+03 ppm1		0 10762E+03 ppml	0 29817E+03 ppml	0.22428E+03 ppm1	62331E+02 ppm1
• 0 10000E+01 volume	o 10000E+01 volume	0.10000E+01 volume (				o radook+ol volume o				. 10000E+01 volume o	0 10000E+01 volume 0.	0 10000E+01 volume 0.62331E+02 ppm1
and name and name peak 8381 and name and name	and name and name and name peak 8391	resid 57 and name HW2 )) resid 57 and name HW2 )) resid 50 and name HW )) 1.600 peek 6511 weight recid 50 and name HW ))	and name and name and name	and name HG1 )) and name HB1 )) and name HB1 )) and name HR ))	and name HR ) and name HE ) and name HE ) and name HN ))	and name HB1 )) and name HB1 )) and name HB )) and name HA ))	and name HN )) and name HN )) and name HN )) and name HN )) eak 8901 weight	and and and	and name HN )) and name HN )) and name HN )) and name HN ))	and and and and and	name HN )) name HD1 )) 9011 Weight name HN ))	name HN )) name HB2 )) 9031 weight
( megid "BrD" and ress. 1.400 2 900 2 0.81) ( megid "BrD" and ress. ( megid "BrD" and ress. ( megid "BrD" and ress.	ocepta bir and resid 38 ocepta bir and resid 38 (8391) and resid 43 segrid Bir and resid 39 4 000 4.000 1500 83391	BrD and BrD and BrD and 3 400	segad "BrD" and reald 53 [8511] [8511] [8511] [86914 "BrD" and reald 50 [8511]	( 6911)  ( 6	"BrD and "BrD and "BrD and "BrD and "BrD and	"BrD" and real brown and real "BrD" and real "BrD" and real "BrD" and real \$4.000	Brb   and re   Brb   and re   Brb   and re   Brb   and re   2900	segad "BED" and resid 103 segad "BED" and resid 82 segad "BED" and resid 103 segad "BED" and resid 98 ( 991) ** and resid 09 segad "BED" and resid 98	3 500 3 100 2 000 pc e911)	00 55	(F 9011) segid "BrD" and reald 105 and segid "BrD" and reald 104 and 3 100 2.400 2.400 peak 9011) segid "BrD" and reald 105 and (9011)	segid "BrD " and resid 105 and segid "BrD " and resid 102 and 3 800 3.600 1 700 peak
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	2 702		3 044	979	5 021	5 021	1 549	1 667	2 377	3 014	639	
	8 573 ppm2 2 702		8 423 ppm2 3 044	9 003 ppm2 7 979	8 923 ppm2 5 021	8 416 ppm2 5 021	9 196 ppm2 1 549	9 359 ppm2 1 667	8.377 ppm2 2 377	8 166 ppm2 3 014	8 164 ppm2 1 639	
	0 15992E+03 ppml 8 573 ppm2		0 78171E+02 ppml 8 423 ppm2 3	0 353568+02 ppml 9 001 ppm2 7	8 923 ppm2 5	0 84076E+02 ppm1 8 416 ppm2 5	9 196 ppm2 1	9 359 ppm2	8.377 ppm2 2	ppml 8 166 ppm2 3	8 164 ppm2 1	
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and hame HR )) and name HR ))	and name HN )) and name HN )) poak 671 weight 0 10000E+01 volume 0 15992E+03 ppml 8 573 ppm2 and name HN )) and name HN ))	and name and name and name	and hans REI )) peak 5911 weight o 10000E+01 volume O 78171E+02 ppm1 8 423 ppm2 3 and name HRI )) and name HGI ))	and name HN )) and name HN )) peak 7031 weight 0 10000E+01 volume 0 35356E+02 ppml 9 003 ppm2 7 and name HN )) and "a-e HN ))	and name HN 1) and name HD21) and name HD21) beat name HD21) and name HD 1) peak 7121 wasght 0.100008+01 volume 0 767008+02 ppm1 8 923 ppm2 5	and name HGD1) and name HBD1) and name (HD1) and name (HD1) and name (HD1) beak 7131 weight 0 10000E+01 volume 0 84076E+02 ppm1 8 416 ppm2 5	name NU22) name NU ) name NU ) name NU24) name NU24) name NU24) 1251 weight 0 10000E+01 volume 0 24489E+01 ppm1 9 196 ppm2 1	and name HD14) and name HD24) and name HD24) and name HD24) and name HD24) and and name HD24) and and name HD24) and name HD24)	and hame HD 1) and hame HD 1) and hame HD 1) and mame HE 2) seak S211 weight 0.10000E+01 volume 0 47916E+02 ppml 8.377 ppm2 2	and name HN )) and name HN )) and name HN )) and name HN )) and k 261 weight 0.10000E+01 volume 0 169878+02 ppml 8 166 ppm2 3	name HOJ )) name HOJ )) name HOJ ) name n	and hame KOI ))
HN HR2 HG2 HB1	reald 21 and name HN )) 2 200 peak 6671 weight 0 10000E+01 volume 0 15992E+03 ppml 8 573 ppm2 reald 64 and name HN ))	esid 112 and name coid 64 and name coid 22 and name	86 and hamma NEJ )) 100 Peak 6311 weight o 10000E+01 volume O 78171E+02 ppm1 8 423 ppm2 3 86 and name NCJ )) 87 and hame NCJ ))	asad 50 and name HM ))  1 300 peek 7031 weight 0 10000E+01 volume 0 35356E+02 ppml 9 003 ppm2 7  1esid 52 and name HM ))	reald 47 and name HPW )) reald 47 and name HPW ) reald 63 and name HPZ1)) reald 65 and name HPZ1)) 1 800 peak 7121 weight 0.100008+01 Volume 0 767008+02 ppml 8 923 ppm2 5	resid 9 and name (1021)) resid 3 and name (H21)) resid 9 and name (H21) resid 8 and name (H22) resid 85 and name (H22) 1 900 peak 7131 weight 0 10000E+01 volume 0 84076E+02 ppm1 8 416 ppm2 5	name NU22) name NU23) name NU24) YESI weight 0 10000E+01 volume 0 24489E+01 ppm1 9 196 ppm2 1	and name HOLY) and name HW )) and name HOLY) peak &lal weight 0 loosog.ol volume 0 429606.ol ppml 9 359 ppml 1 and name HOLY) and name HOLY)	and name HD 1) and name HD 1) and name HD 1) and name HE 2) and selt veright 0.10000E+01 volume 0 47916E+02 ppml 8.377 ppm2 2	4 and name HN )) 3 and name HB )) and name HB )) and name HR )) and name HR )) peak 8261 weight 0.10000E+01 volume 0 36987E+02 ppm1 8 166 ppm2 3	**eaid 29 and name HN )) **eaid 29 and name HN )) **eaid 28 and name HN )) **eaid 28 and name HN )) **into peek 8291 weight 0.100008.01 volume 0 248978.02 ppm1 8 164 ppm2 1	name Tame

6.001	7 530	3 066	3 108	2 851	1 929	1 762	4 80 S
9 462 ppm2	456	9 456 ppm2	8 556 ppm2	8 544 ppm2	8.556 ppm2	8 556 ppm2	8,695 ppm2
0 13642E+01 ppm1	30219E+03	0 12105E+03 ppml	0 53501E+02 ppm1	0.72347E+02 ppm1	0.141278+03 ppml	0 14396E+03 ppm1	0.86367E+02 ppm1
0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 100008+01 volume	10000E+01 volume	0 10000E+01 volume
peak 9281 weij and name HN and name HN	1 and name HN )  0 peak 9341 weight 2 and name HN )  6 and name HN ) 2 and name HN )  4 and name HN )  7 and name HN )	and name and name and name and name and name and name	4 and name H(1) 1 1 and name H(2) 1 2 bad name H(2) 1 4 and name H(2) 1 5 pad 451 watght 1 and name H(1) 1 4 and name H(1) 1	and name HN )) and name HO )) and name HB )) and name HB )) and name HB )) and name HB )	and and and and and and and and and	tame tame tame tame tame tame tame	Deak 9531 weight and name HN )) B and name HA )) If and name HA )) it and name HA ))
2 700 "BED" and	wegid bED and resid to be seed of 5 and resid to 6 and be seed of 5 and 5	BrD and	######################################	"BPD" and resid 21 "BPD" and resid 23 "BPD" and resid 24 1) BPD" and resid 64 "BPD" and resid 64 "BPD" and resid 61 3 400 "BPD" and resid 21 "BPD" and resid 23	weigid 'BrD' and vesid 11 weigid 'BrD' and vesid 19 100 2 700 2 700 5 200 6 9491 9491 9491 9491 9491 9491 9491 94	and	200 and and
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name (R1 ))  name (R1 )  name (R2 ))  name (R3 ))  self (R1 )  name (R3 ))	and name HN ))  and name H2))  peak 9101 weight 0 10000E+01 volume 0 10416E+03 ppm1 8 573 ppm2 2  and name H8 ))  and name H8 ))  and name H8 ))	and name MG24)	name (ECZ )) anner MR )) anner MR )) 2471 weight 0 10000E+01 volume 0 47295E+02 ppm1 9 739 ppm2 2 name (MR )) name (MR ))	name HD1 ))  name HO11)  name HO11)  name HO11)  name HO11)  name HO 1)	MRHH1 )) WHH1 )) WHH1 )) WH ) W	and name HF )  and name HF )	resid 84 and name resid 86 and name resid 80 and name

	2 481		2 129	1 963	,	- - -	2 456		2 412			1 888	1 604				2 456	:	2 722
	8 666 ppm2		8 785 ppm2	8 791 ppm2	3	THE PART OF THE	9 106 ppm2		7 977 ppm2			7 996 ppm2	7 996 ppm2				7 996 ppm2		7 996 ppm2
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and name HB1 )) and name HN )) and name HG1 ))	and name HN )) and name HB )) peak 10081 weight 0	HN )) HB1 )) HN ))		and name HN )) and name HB2 )) peak 10201 weight 0	and name HN )) and name HB% ) and name HN )) and name HBI ))	peak 10241 Weight of and name HN ))	and name HG1 )) and name HG1 )) peak 10281 weight 0 and name HN )) and name HD1 ))	and name HN )) and name HG11) and name HN ))	0331 weight name HN ))	name	and name and name and name	and and	and name HG11)) and name HN }) and name HD2*) eak 10391 weight	and name HD2k) and name HD2k)	name name name	and name HN ))	HN )) HB2 )) Weight	HB2 )) HB2 )) HN ))	peak 10431 weight 0
segid "BrD " and resid 18 9861) segid "BrD " and resid 103 segid "BrD " and resid 104	resid 24	881d 24 881d 26 881d 16	1 400 said 16	resid 16 resid 19 1 600	resid 11: resid 75	resid 75	esid 98 1 500 esid 98 esid 98	ord " and resid 98 ord " and resid 101 ord " and resid 96 ord " and resid 96	1.600 resid 77	SID " and resid 96 SID " and resid 97	esid 72	1 600 1 600 eard 77	resid 11 resid 78 resid 22	BrD " and resid 55 BrD " and resid 23 BrD " and resid 78	1 2 2	resid 55 resid 25	BrD " and resid 77 BrD " and resid 80 2 000 2 000 p	resid 78 resid 80 resid 55	1.700 resid 78
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and name HN )) and name HB2 )) sak 9561 weight 0 10000E+01 volume	and name HN and name HB1	and name HB2 and name HN and name HN	name HN }} name HA }} 9631 weight 0 10000E+01 volume	and name HN }} and name HB }) and name HR })	eak 9641 weight 0 10000E+01 volume 0 56248E+02 and name RN )) and name RO ))	and name HN )) and name HB2 )) eak 9651 weight 0 10000E+01 volume 0 57216E-02 and name HN ))	and name NC1 )/ and name NR1 )/ and name RR1 )/ and name RR1 )/ and page NR1 )	and name HN )) and name HR )) and name HR )) and name HR )) and name HR ))	and hame HOI))	and name HN }) and name HBA )) eak 9801 weight 0 100008+01 volume 0 19838E+02 ppml 8	and name HN )) and name HB2 )) and name HN ))	and name and name	Name HN )) Name HG(2) ) NASI weight 0 10000E+G1 Volume 0 70791E+G2 ppml 8	name HB1 )) name HB1 )) name HN ))	9831 weight 0.10000E+01 volume 0.24267E+03 ppml 8 name HN }}	and name	and name HBJ )) and name HBJ )) eak 9841 weight 0 10000E+01 volume 0.24419E+02 ppml	and name HN )) and name HBt ) and name H())	9861 weight 0.10000E+01 volume
name HN }) name HB2 }} 9561 weight 0 10000E+01 volume	resid 103 and name	celd 103 and name celd 103 and name celd 103 and name	celd 99 and name HN }) celd 100 and name HA }) 1 600 peak 9631 weight 0 10000E+01 volume	name name name	1 600 peak 9641 weight 0 10000E+01 volume 0 56248E+02 cead 99 and name HN )) read 97 and name HO ))	resaid 99 and name HN ))  resaid 103 and name HE2 ))  0 000 peak 9651 weight 0 10000E+01 volume 0 57216E-02 resaid 99 and name HN ))	and name NC1 )/ and name NR1 )/ and name RR1 )/ and name RR1 )/ and page NR1 )	hame NN   ) hame NN   hame N   ha	rio park for manager Cooperat Cooperat Cooperat Femal 31 and name HG1 ))	resid 103 and name HN }) resid 105 and name HB2 }) 0 900 peak 9801 weight 0 100008+01 volume 0 19838E+02 ppml 8	"BID" and resid 17 and name HN )) "BID" and resid 15 and name HB2 )) "BID" and resid 103 and name HN ))	and resid 82 and name and resid 103 and name and resid 105 and name	MED 4 and reard 17 and name HN ))  HD * and reard 13 and name HG2 ))  1 400 1.800 peak 9821 weight 0 10000E+01 volume 0 70791E+02 ppml 8	resid 17 and name HN )) resid 11 and name HB1 )) resid 17 and name HN )) resid 18 and name HN ))	2 200 peak 9831 weight 0.10000E+01 volume 0 24267E+03 ppml 8 resid 40 and name HN ))	resid 103 and name	name HN )) name HB1 )) 9841 weight 0 10000E+01 volume 0.244196+02 ppml	name HN )) name HN ) name HN )	peak 9861 weight 0.10000E.01 volume and name HN ))

	3 639	3 075	3 992	2 781	1 542	1 110	1 282	3 923	2 935	1 678	1.684
8 572 ppm2	8 571 ppm2	8 714 ppm2	8 481 ppm2	8 480 ppm2	8 479 ppm2	8.480 ppm2	7 735 ppm2	7 734 ppm2	8 764 ppm2	8.632 ppm2	8 626 ppm2
0 57856E+02 ppml	0 17351E+03 ppm1	0 28245E+03 ppml	0 \$6370E+02 ppml	0 42900E+02 ppml	0 60718E+02 ppm1	0 33324E+02 ppml	0 18001E+02 ppm1	0 13237E+03 ppm1	0.90637E+02 ppml	0 95713E+02 ppml	0 92729E+02 ppml
0 10000E+01 volume	0 10000E+01 volume	0 100005+01 Volume	o 100008+01 volume	0 10000E+01 volume	0.10000E+01 volume	0 10000E+01 volume	0.10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume
and name HN )) and name HG2t) and name HM )) and name HM )) and name HN )) and name HN ))	and name HN )) and name HB2 )) peak 10991 weight and name HN )) and name HBI ))	and name HN )) peak 11181 weight and name HN )) and name HN ))	and name HN )) and name HB1 )) peak 11231 weight and name HN )) and name HB2 ))	and name HN )) and name HD1 )) peak 11271 weight	and name HG2 )) and name HB1) and name HB14) peak 11301 weight and name HN ))	and name HD1%) and name HN )) and name HG1%) peak 11321 weight	and name HB1 )) and name HB1 )) and name HB2 )) and name HB2 ) and name HB2 ) and name HB1 )	and name and name and name and name	and name HN )) and name HN )) and name HN ) peak 11591 weight and name HN )) and name HN ))	and name and name peak 11631 and name	and name HNJ%) peak 11671 weight and name HNJ) and name HNJ)
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OR (10901) (( aegyst) ( aegyst ( 1098) ( ( aegyst) ) 3.900 OR ( 10981) ( ( aegyst)	ASSI (10991) (1 neggid "	ASST (1119) ( segid ( segid ( segid ( segid (	ASSI [11231] (( 0cg1d ") (( 0cg1d ") ( 0cg1d ") ( 11231) ( 0cg1d ") ( ( seg1d ") (	ASSI (11271) (( segid ") (( segid ") 4 100 OR (11271) (( segid ")	ASSI (1301) (6 86914 " (7 86914 " (8 86914 " (9 86914 " (131301) (1 86914 "	( segic ASSI (113 (( segic ( segic ( 4 20) OR (11321)	( eegad "B ( eegad "B ( eegad "B ( eegad "B ( eegad "B ( 11531) ( eegad "B	OR (11531) ( segad ( segad ASSI (11541) ( segad ) 3 3	(( seegid " ( seegid " )	ASSI (11631) ( segold " ( segold " ) 3.500 OR (11631) ( segold " ( segold " ) ASSI (11671)	( aegac ( aegac 1, OR {11671] ( aegac ( aegac ( aegac ( aegac
4 816	4 691	1 670				1 068		3 118	1 932	1.064	508
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and name HB2 )) and name HN 1) and name HN 1) peak 10471 weight 0.100008+01 volume 0 522878-02 ppml 7 984 ppm2 4 and name HN 1) and name HN 1) and name HN 1)	and name HA )) and name HA )) peak 10501 weight 0,10000E+01 volume 0 42726E+03 ppml 7 974 ppm2 4	did insme in / // and name RN // and name RO2*/ and lame RO2*/ and name HN // and name HN // and name HN //	and name and name and name and name	and name HG2) and name HG2) and name HG2)	and name and name and name	And name HN )) and name HN )) peak 10551 weight 0 10000E+01 volume 0 13251E+03 ppm1 7 975 ppm2 1 and name HN )) and name HN )	and name and name and name and name	peak 10611 weight         0 100006+01 volume         0 214588+03 ppm1         9 680 ppm2         3           and name IRM )         3 and name IRX )         3 and name IRX )         3 and name IRX )         9 881 ppm2         1	and name HB2 )) and name HB2 )) and name HW )) and name HW ) and name HW ) and name HW ) and name HW ))	and hame HG11) and anne HB )) and anne HB )) and name HB )) and name HB )) and name HB )) and name HB ) and name H	and name HN )) and name HN )) and anne HN )) and name HN )) peak 10901 weight 0 100006+01 volume 0.640768+02 ppm1 7 516 ppm2 1
HBJ )) HBJ )) Weight 0.10000E+01 volume 0 52287E+02 ppml 7 984 ppm2 4 HBJ )) HBJ ))	resid 52 and name RA ))  resid 80 and name RA ))  2 000 peak 10501 weight 0.100008-01 volume 0 427268-03 ppml 7 974 ppm2 4 ppm2 7 974 ppm2 7 974 ppm2 7 974 ppm2 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	resist 7 and name Hn // Resist 5 and name HN )) 2 000 peak 10541 weight 0 1000E+01 volume 0 11004E+03 ppml 7 974 ppm2 1 2 000 peak 10541 weight 0 1000E+01 volume 0 11004E+03 ppml 7 974 ppm2 1	resid 22 and name resid 110 and name resid 55 and name resid 43 and name	name name name	resid 78 and name resid 63 and name resid 55 and name resid 22 and name	name INF ); 10551 weight o 10000E+01 volume o 13253E+03 ppml 7 975 ppm2 1 name INF ); name NOIT)	resid 81 and name resid 81 and name resud 55 and name resud 81 and name resud 56 and name resud 34 and name	2 400 peak 10611 weight 0 100006+01 volume 0 214556+03 ppml 9 680 ppml 3 3 145 6 and name MR )	and name HB2 )) and name HB2 )) and name HB2 )) and name HG2 )) post 1073 usylit 0 10000E+01 volume 0 57791E+02 ppm1 8.006 ppm2 1 and name HH ))	read 116 and name HGI!)) read 80 and name HR )) read 80 and name HR )) read 80 and name HR )) read 81 and name HR )) read 81 and name RO!) 1 900 peak 1031 weight 0 100006401 volume 0 948058402 ppm1 8.005 ppm2	hamme RM2 )) hamme RM2 )) namme RM2 )) namme RM2 )) namme RM2 ) namme RM2 ) namme RM2 )

7.737	2.348		1 797	2 529	1 422	2 331	2 152		4.664	526	2.695	4 880
8.669 ppm2	6.980 ppm2		8 980 ppm2	8 522 ppm2	8 521 ppm2	8 522 ppm2	8 218 ppm2		8 087 ppm2	8 087 ppm2	8 831 ppm2	9.187 ppm2
0 30609E+02 ppm1	79191E+02 ppml		0 35919E+00 ppm1	0 42059E+02 ppml	0 52230E+02 ppml	41867E+03 ppml	16014E+03 ppm1		0.28782E+02 ppm]	0 81005E+02 ppm1	0 17922B+02 ppm1	59211E+02 ppm1
0.100005+01 Volume 0			0 10000E+01 volume 0	0 10000E+01 volume 0	0 10000E+01 volume 0	0 10000E+01 volume 0	d loocock+Dl vclume 0		0 10000E+01 volume 0.	0 10000E+01 volume 0	0 10000E+01 Volume 0	0 10000E+01 volume 0
and name HG1 )) and name HN )) and name HD* ) eak 12141 weight	and name HN )) and name HN )) and name HB )) and name HB ))	and name and name and name and name	and name HB2 )) eak 12261 weight and name HN )) and name HG1%)	and name NN )) and name HN )) eak 12281 weight and name HN )) and name HBI ))	and name HN )) And name HD1%) eak 12301 weight and name HN ))	and name HN )) and name HB )) eak 12311 Weight	and name HB1 )) and name HB )) and name HG )) eak 12401 weight	1.3 and name HN )) 1.5 and name HB1 )) 1.0 and name HB2 )) 1.6 and name HR )) 1.1 and name HR ))	and name HN )) and name HN )) and name HN )) and name HN ))	and name HN )) and name HN )) and name HN )) and ane HN ))	and name HN )) and name HAZ )) and name HB )) and name HB )) and name HB ))	and name HN )) and name HB )) peak 12841 weight and name HN ))
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476	614	374		۳ ۲	572	8 8 9	413	594	9 2 6 9 7 7 7 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8		641. 323	
74	9	N	•	N	n	4	м	٦	4		m (4	
8 306 ppm2	8 306 ppm2	8.039 ppm2		8 040 ppinz	8 045 ppm2	9 125 ppm2	9 125 ppm2	9 125 ppm2	9 124 ppm2		8 669 ppm2	8.669 ppm2
0.12326E+03 ppm1	0 68030E+02 ppml	0.36902E+02.pbml		0 95470E+02 ppm1	0 82682E+02 ppml	0 64947E+02 ppml	0 472356+02 ppml	0.60527E+02 ppml	0 46966E+02 ppml		0 37827E+02 ppm1	0 37921E+02 ppm1
0 100005+01 volume (	0.10000E+01 volume (	0 10000E+01 volume (		U 10000E+01 Volume	0 10000E+01 volume (	0.10000E+01 volume (	0 10000E+01 volume (	0 10000E+01 volume (	0 10000E+01 volume (		0 10000E+01 volume 0	0.10000E+01 volume (
name HN )) name HG )) 1701 weight	HB2 )) HN )) Weight HN ))	HB1 )) HR )) HR )) HR ))	HB2 ))	weight HN )) HB2 )) HN ))	1851 weight name HN )) name HG1 ))	name HA )) name HN )) name HN ))	name HN )) 1941 weight name HN )) name HN ))	name HN   )     name HD2%     12011 weight     name HN   )     name HG2%       name HG2%       name HG2%	name HN )) name HB1 )) 2021 weight name HN )) name HB1 ))	name HA )) name HN )) name HA )) name HN ))	2071 weight name HN	HN )) HD1 )) HN )) HB2 )) weight
	and neard neard neard n	and and and and and and and	and and	and and and and and and	and and	eak 1	and eak 1 and and	and eak 1 and and	and eak 1 and and	<b>1 1 1 1 1</b>		and and and and and and
କ୍ରେପ୍ର କ	resid 69 and resid 60 and 1 700 peak	resid ii and resid 69 and resid 73 and resid 70 and resid 70 and 1300 peak	resid 70	2 000 celd 11 celd 13	resid 73	segid 'BrD' and resid 22 and 190 peak 3 600 1 700 peak 11931	(1 egg14 "BrD" and resid 96 and (1 egg14 "BrD" and resid 100 and 4.000   1.000 peak (11941)   (1 egg14 "BrD" and resid 24 and (1 egg14 "BrD" and resid 24 and (1 egg14 "BrD" and resid 24 and peak (1 egg14 "BrD"	23 an 22 an 00 peak 23 an 21 an	resid 98 resid 30 1 500 resid 23 resid 58	a a a a a	1 400 pr resid 100 resid 85 resid 100 resid 103 2 500 pr	(( segid "BFD" and resid 100 and name (1 segid "BFD" and resid 104 and name (( segid "BFD" and resid 100 and name ( segid "BFD" and resid 100 and name 4 100 4 100 peak 12111

1. 666	1. 666	1 497	6.981	2.786	1 260	4.447	3 906	3.635	3 753
8 568 mpm2	20 0 0	5 9 5	9 463 ppm2	8 377 ppm2	8 980 ppm2	9.742 ppm2	7 763 ppm2 8 695 ppm2	9.156 ppm2	9 156 ppm2
0 17809E+03 ppm1	1.78098*43 Ppm1	0 · 813048• 02 ppm l	0 44090E+02 ppm1	, yesseros pent	0 15271E+02 ppm1	0 20679E+02 ppm1	0 79648E+02 ppm1	0 49406E+02 ppml	0 12711E+02 ppm1
• • • 10000E•01 volume	0.10000E+01 VOLUMS	0 10000E+01 volume	0 10000E+01 volume 0 10000E+01 volume	0.10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	o 10000E+01 volume	0 10000E+01 Volume 0 12711E+02 ppml
and name HN 1) and name HB2 )) and name HN )) and name HN 1) and name HN 1) and name HN 1)	3191 name name name	peak 13201 weight and name HN )) and name HO2 )) and name HO24) and name HO24) and name HN )) and name HN ))	peak 13631 weight and name HN )) and name HD*) and name HN )) and name HN )) peak 13691 weight	and name HN )) and name HG11)) and name HN )) and name HG )) peak 13971 weight	and name and name and name and name eak 14061		and name and name and name and name and name		and name and name and name
( oegid 'BED and resid 60 (2014 'BED and ceed 22 (1)181) (sugad 'BED and ceed 60 (segid 'BED and ceed 57 (segid 'BED and ceed 57 (segid 'BED and ceed 67 (segid 'BED and ceed 62 (segid 'BED and ceed 62 1 200 2 200 2 200	2 300 esid 65 esid 63 esid 60 esid 60 esid 68 esid 69 esid 65 esid 63 esid 63 esid 63	1 900 esid 65 esid 60 esid 63	1 500 esid 63 esid 22 esid 22 1 800	22 23 21 21 22 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	1814 11 1814 13 1814 10 0 700 1814 10	resid 21 resid 100 resid 100 resid 100 resid 100 resid 100	resid 102 resid 104 resid 105 resid 105 resid 106	resid 10	nd ree
(( segid "B (( segid "B OR {11181} (( segid "B (( segid "B ASSI (11191) (( segid "B ( segid "B	1 200 2.600 OR [11191] (( segid "BPD" and F ( segid "BPD") and F ( segid "BPD" and F ( segid "BPD") and F (	3.600 3.200 OR (13201) (( segid "BrD" and it ( segid "BrD" and it )	4.000 OR [13631) (( aegad "B. ASSI [13691) (( aegad "B. ( aegad "B. 3 700 OR [13691)	(( 80914 "BED" and BED (81959) (1859) (1959)	(	( segid 'BrD' and ASE [4401] ( segid 'BrD' and ( segid 'BrD' and ( segid 'BrD' and 4 600 OR ( 4401) ( segid 'BrD' and ASE [4411] ( segid 'BrD' and ASE [4411]	( segid "BYD" and 3.700 OR {14131} ( seegid "BYD" and ( seegid "BYD" a	OK [41314]  (8 4924 "BID" and (8 4934 "BID" and	(( segid "BrD " a ASSI {14161} ([ segid "BrD " a (( segid "BrD " a (( segid "BrD " a 5.000 5.000
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2 473	1.823		1 514		7 520	90 9	2 856	9.336	
	9 119 ppm2 1.623			i (				8 565 ppm2 2.336	
Ppm.1 6 147 ppm.2 2	9 119 ppm2		9 119 ppm2 1		9 119 ppm2 7	9 196 ppm2 2	8 564 ppm2 2	7 mdd 595 9	
Ppm.1 6 147 ppm.2 2	9 119 ppm2		0 50522E+02 ppml 9 119 ppm2 1		0 54095Et02 ppml 9 119 ppm2 7	0 100608+03 ppml 9 196 ppm2 2	0 10295E+03 ppm1 8 564 ppm2 2	7 mdd 595 9	
and name NO ))  peak lise; weight o 10000E-01 volume 0 43415E-02 ppml 8 147 ppml 2 and name NB ))  and name NB ))  and name NB ))  and name NB ))	and name NO11  seek 1.2924 weight 0.10000E+01 volume 0.65898E+02 ppm1 9 119 ppm2  and name HO12)  and name HO12)  and name HO11)  and name HO14  sand name HO14  and name HO14  sand name HO14	and name and name and name and name and name	and name MIJ1)  eak 12971 weight 0 100006.01 volume 0 505228-02 ppml 9 119 ppm2 1  and name HN )  and name HN )  and name HIX )  eak 12981 weight 0 100008-01 volume 0 120528-03 ppml 9 119 ppm2 3	and name (N) )	peak 13001 weight 0 10000E+01 volume 0 \$4095E+02 ppml 9 119 ppm2 7 and name RR 1) and name RE21) and name RR 1) and name RR 1 and name RR 1	And name H8t )  pask 1301 Weight 0 100006+01 Volume 0 10060E+03 ppm] 9 196 ppm2 2  and name H8 ))  and name H8 ))  and name H8 ))  and name H8 )  pask 13131 weight 0 10000E+01 Volume 0 59266E+02 ppm1 8 496 ppm2 2	and name (M7 ) } and name (M2 ) } and name (H1 ) } and name (H2 ) }	and name HN ))	name name name
NO )) Media to 10000E-01 volume 0 43415E-02 ppm1 8 147 ppm2 2 Media ) Media to 10000E-01 volume 0 43415E-02 ppm1 8 147 ppm2 2 Media )) Media to 10000E-01 volume 0 43415E-02 ppm1 8 147 ppm2 2 Media (1)	Evestad 28 and name ROL1)  1 700 peak 12951 weight 0.10000E+01 volume 0.65898E+02 ppml 9 119 ppm2  resaid 96 and name RM ))  resaid 101 and name ROL2)  resaid 202 and name RDL1)  2 400 peak 12961 weight 0 10000E+01 volume 0 21452E+03 ppml 9 120 ppm2	resid 23 and name resid 21 and name resid 21 and name resid 23 and name resid 23 and name resid 26 and name and name resid 26 and name resid 26 and name	eatd 101 and name KD1#) 1 600 peak 12971 weight 0 100008.01 volume 0 505228.02 ppml 9 119 ppm2 1 1 600 peak 12971 weight 0 100008.01 volume 0 505228.02 ppml 9 119 ppm2 1 2 100 peak 12981 meight 0 100008.01 volume 0 120558.03 ppml 9 119 ppm2 3	resid 23 and name HB ))  resid 24 and name HO 1))  resid 30 and name HB ))  resid 30 and name HB ))  resid 35 and name HB ))	1 600 peak 13001 weight 0 10000E+01 volume 0 54095E+02 ppml 9 119 ppm2 7 resid 24 and name HEZZ)) resid 24 and name HEZZ)) resid 32 and name HEZZ)) resid 32 and name HEZZ)) resid 32 and name HEX ))	and resultd 12 and name HBH )  2 0.0 2 0.00 peak 13011 weight 0 10000E+01 volume 0 10060E+03 ppm1 9 196 ppm2 2  and resuld 20 and name HB2 ))  and resuld 20 and name HB2 ))  and resuld 30 and name HB2 ))  and resuld 30 and name HB2 ))  1 1700 peak 13121 weight 0 10000E+01 volume 0 59266E+03 ppm1 8 496 ppm2 2	HN )) HN ) HN	beid 60 and hamme HRN ))  rend 61 and name HRN ))  send 62 and name HRN ))  send 63 and name HRN ))  send 63 and name HRN ))	62 and name HG1 60 and name HW 56 and name HG

5.000 S.000 0.500 peak 14461 weight 0.10000E+01 volume 0.12633E+02 ppml OR [14441] (16941 ** ** ** ** ** ** ** ** ** ** ** ** **	and resid 81 and name and resid 79 and name and resid 106 and name 200 1 900 peak 14511 and resid 79 and name	aggad "Err and reals") and name HN segal "Err and reals" and reals	woogid "BED" and reead 72 and name HN 45914 "BED" and reead 70 and name HBI 45914 "BED" and reead 70 and name HBI mogstd "BED" and reead 115 and name HN mogstd "BED" and reead 115 and name HN mogstd "BED" and reead 166 and name HN megstd "BED" and reead 66 and name HN	eegid (BFD) and resid 67 and name eegid (BFD) and resid 67 and name eegid (BFD) and resid 69 and name (M431) BED and resid 68 and name eegid (BFD) and resid 64 and name eegid (BFD) and resid 65 and name eegid (BFD) and resid 61 and name	(14464) (14464) (14464) (14464) (14464) (14464) (14464) (14464) (14644		(1 4954 "BED" and resid 62 and name RN )) (( 4954 "BED" and resid 64 and name RN )) (( 4951 "BED" and resid 64 and name RN )) (OR [1475] (OR [1475] (( 4954 "BED" and resid 62 and name RN )) (( 4954 "BED" and resid 60 and name RN )) (( 4954 "BED" and resid 60 and name RN ))	ASST (	segid 'BrD' and read 61 and name HR segid 'BrD' and read 61 and name HR (791) and read 69 and name HR (492) and read 61 and name HR segid 'BrD' and read 63 and name HR segid 'BrD' and read 63 and name HR segid 'BrD' and read 63 and name HR segid 'BrD' and read 65 and name HR segid 'BrD' and read 65 and name HR segid 'BrD' and read 65 and name HR	resid 63 and name HN 1 100 peak 14801 weig resid 60 and name HN resid 63 and name HN resid 59 and name HN	resid 55 and name HN 1 900 peak 14821 weigerst 31 and name HR resid 32 and name HE3 resid 54 and name HR
	8 513 ppm2	8.667 ppm2	8, 669 ppm2	8 940 ppm2	8 934 ppm2	9 125 ppm2		7 977 ppm2 2	7 981 ppm2 1		9 658 ppm2 3
	0 10000E+01 volume 0 29353E+02 ppm1	0 100005+01 Volume 0 36990E+02 ppml	0 10000E+01 Volume 0 14931E+02 ppml	0 10000E+01 Volume 0 14325E+02 ppml	0 10000E+01 Volume 0 30696E+01 ppml	0.10000E+01 volume 0 66237E+02 ppml		0 100006+01 volume  0 649406+02 ppml	0.10000E+01 volume 0.11346E+02 ppml		0 100008+01 volume 0 19968E+02 ppml
and name HN )) and name HB1 ))	regid 101 and name HN )) regid 104 and name HN )) 1 200 peak 14171 weight ( regid 101 and name HR )) regid 34 and name HR ))	and name HR )) and name HEI )) and 14201 weight and name HN ))	and name HB2 )) and name HM1) and name HG12)) eak 14221 weight and name HM )}	name HB2 )) name HB2 )) 4241 weight name HN )) name HN ))	and name HEI )) and name HEI )) and name HM ) and name HM2*) peak 14251 weight	"BED" and resud 99 and name HN ))  19ED" and resud 86 and name HO2 ))  "BED" and resud 98 and name HN ))  "BED" and resud 32 and name HE2 ))  3 600 1 700 peak 14281 weight	resid 98 and name HE resid 34 and name HE resid 75 and name HN resid 68 and name HDM	resid 96 and name HN )) resid 99 and name HB# ) 1 900 peak 14301 weight resid 96 and name HN )) resid 97 and name HG2 ))	resid 77 and name HN )) resid 73 and name HD14) 0.600 peak 14311 warght resid 78 and name HN )) resid 116 and name HO12))	and name and name and name and name	"BPD" and resid 63 and name HB 1) "BPD" and resid 79 and name HB 1) 4 660 0 900 peak 1441 weight 0 "BPD" and resid 63 and name HB 1) "BPD" and resid 63 and name HB 1)

4 80 80	277 2	4 477		2 77 9	1 994	3.64.5	9 9 9 9	2 475	1 962	1 424
11 062 ppm2	11 082 ppm2	3 373 ppm2	1 546 ppm2	2 289 ppm2	2 291 ppm2	2 190 ppm2	057	1 058 ppm2	1 057 ppm2	4 854 ppm2
0.15339E+02 ppm1	0 36353E+02 ppm1	0 13207E+03 ppml	0 11879E+03 ppm1	0.12050E+03 ppml	78528E+02 ppm1	0.30669E+03 ppml	0 23427E+03 ppml	0,18258B+03 ppml	0 173605+03 ppml	77701E+02 ppm1
0 10000E+01 Volume 0.	0.100005+01 volume 0	0 10000E+01 volume 0		0.10000E+01 Volume 0.	0 10000B+01 volume 0		0 10000E+01 Volume 0	0 10000E+01 Volume 0.	0 10000E+01 volume 0	0 10000E+01 volume 0
and name HB2 )) and name HB1 )) pcak 15581 weight and name HB1 )) and name HB1 ))	and name HEI ]) and name HEI ]) tak 15621 weight and name HEI ]) and name HEI ])	and name HA )) and name HB2 )) and name HB2 )) and name HA )) and name HD1*) and shame HB1 )	and name HD14) and name HB2 ) and name HB14) and name HA ) peak (172 weight	and name HBt ) and name HBt ) and name HBt ) peak 6592 weight and name HBt ) and name HBt )	and name HBt ) and name HB2 )) seak 6622 weight and name HBt )) and name HB1 ))	and name HB2 ))  eak 6812 weight and name HB1 )) and name HB1 )) and name HB1 )	and name HBt ) and name HBt ) and name HGl )) and name HGl ) peak 7132 weight and name HGl )	and name HB1 )) and name HG1*) and name HB2 )) peak 7142 weight and name HG1*) and name HG1*)	and name H01%) and name HB2 }) >eak 7152 weight and name HG1%) and name HB2 })	and name HB )) and name HD2V) peak 7222 weight and name HB ))
resid 15 resid 32 resid 30 0 700 resid 32	esid 32 esid 32 esid 32 esid 94	( segid 'Brp' and reald 95 2 900 2 100 p ( 862) ( segid 'Brb' and reald 65 ( segid 'Brb' and reald 65 1 ( 5972)	and resid 18 and resid 15 and resid 26 and resid 26 200	BYD " and resid 31 BYD " and resid 35 2 200 2 200 BYD " and resid 31 BYD " and resid 31	eerd 31 2 300 2 300 2 300 2 300 2 300	1.600 1 600  3rD and resid 82  3rD and resid 82  3rD and resid 99  3rD and resid 99  3rD and resid 90	2.100 esid 99 esid 38 1.700 1.700	77 81 00 53 53	BrD " and resid 81 2 D00 2 D00 BrD " and resid 81 BrD " and resid 81	arD " and resid 17 3r6 " and resid 14 2.600 2 300 BrD " and resid 17
({ seejd "BED" and ASSI [1558] (( seejd "BED" and ( seejd "BED" and 4.000 (R seejd "BED" and ( seejd "BED" and ( seejd "BED" and ASSI [1562]	( segid ")	(( segid "BrD"   2 900 2 2 900 2 2 900 2 ( segid "BrD"   ( segid "BrD"   8 821 ( 5972 ) ( segid "BrD"   2 800 2 2 800 2 2 800 2 9 900	OR { 5972} ( 8eg1d "E ( 8eg1d "E ASSI { 6172} ( 8eg1d "E ( 6eg1d "E 3.000 00R { 6172}	ASSI ( 692) ( 69	( segid "	( eegtd ( eegt)))))))))))))))))))	OR (6822) ( 86914 ") ( 86914 ") ASSI ( 1322) ( 86914 ") ( 86914 ") ( 86914 ") 2 600 OR ( 7122)	(( aeg1d m) ASSI ( 7142) (( aeg1d m) 2 800 OR ( 7142) ( seg1d m) ( ( seg1d m) ( seg1d m)	( segid ': ( segid ': ( segid ': ( 7152 )	( aegid " ( segid " ( segid " ( segid " )
										-v <sup>e</sup> r
1 110	2 642	1 073	1.601	2 29 5	147	1.642	989	98	2	41
004 ppm2	а			"	w	ਜਂ		1 430	3.823	3.641
0,	8 562 ppm2	7 735 ppm2	12 275 ppm2	9 133 ppm2	8 660 ppm2 8	9 077 ppm2 1.	8 669 ppm2 7	8 791 ppm2 1 4	8 809 ppm2 3.83	8 609 ppm2 3.6
20119E+01 ppm1	ppml 8 562	7 735	12 275	221856+02 ppml 9 133 ppm2	18760E+02 ppml 8 660 ppm2 8	ppm2	669 ppm2	791 ppm2	809 ppm2	8 809 ppm2
0 20319E+01 ppm1	0 116158+03 ppml 8 562	0 12753E+02 ppml 7 735	0 50580B+02 ppml 12 275	10090E+01 Volume 0 22185E+02 ppm1 9 133 ppm2	volume 0 78760E+02 ppml 8 660 ppm2 8	10000E+01 volume 0 29441E+02 ppml 9 077 ppm2	100008+01 volume 0 167958+02 ppm1 8 669 ppm2	0 147346+02 ppml 8 791 ppm2	0 115986+02 ppml 8 809 ppm2	0 114215+02 pgml 8 609 ppm2
H8 1) HG1V) HG1V) HG1V) Weight 0 10000E+01 volume 0 20119E+01 ppm1 HG1 1)	and name HOL14) and name HH )) peak 15021 weight 0 10000E+01 volume 0 11615E+03 ppml 8 562 and name HR )) and name HR ))	and name RN )) and name RI ) and name RI (1) and name RN )) and name RN )) and name ROIV) and name ROIV)	And have root 1518 weight 0 10000E.01 volume 0 50580B.02 ppm. 12 275 and name HRX )) and name HRX )) and name HRX )) and name HR )) and name HR )) because is 22 weight 0 10000E.01 volume 0 33692E.02 ppm. 8 166	and name HN )) and name HN ) and name HN ) peak 15311 weight 0 10000E+01 volume 0 22145E+02 pm1 9 133 ppm2 and name HN )	and name its // and name HN // and name HN // peak 13341 waight 0 10000E+01 volume 0 78760E+02 pgml 8 660 pgm2 8 and name HN //	and name HN )) and name HS022) peak 1541 weight 0 100008+01 volume 0 25441E+02 ppm1 9 077 ppm2 and name HN ) and name HN )	and name MGG*) and name HV ) and name HE ) and name HE )	and name HD31  and name HN )	and hame HN )) and name HB1 )) peak 15491 weight o 10000E+01 volume o 11598E+02 ppml s 809 ppm2 and name HB1 )) and name HB1 ))	and name HN )) and name HB2 )) peak 15501 weight 0 10000E+01 volume 0 11421E+02 ppml 8 609 ppm2 and name HN ))
nume NG14) nume NG14) sname NG14 4911 weight 0 10000E+01 volume 0 20319E+01 ppm1 mome NG14)	Febil 81 and name Hout)  repud 50 and name HB ))  2 100 peak 15021 weight 0 10000E+01 volume 0 11615E+03 ppml 8 562  resid 46 and name HB ))  resid 44 and name HB ))	D and read 15 and name HN ))  E. and read 25 and name HS ))  E. and read 25 and name HS ))  D and read 35 and name HN ))  D and read 35 and name HO ()  D and read 30 and name HO ()  D and read 30 and name HO ()	14 300 pauk 1321 wight 0 10000E+01 volume 0 50580E+02 ppml 12 275 14 30 pauk 1321 wight 0 10000E+01 volume 0 50580E+02 ppml 12 275 14 35 and name HO21) 14 32 and name HW )) 14 32 and name HW )) 15 35 and name HW )) 16 35 and name HW ) 17 35 and name HW ) 18 35 and name HW ) 18 35 and name HW ) 19 35 and name HW ) 19 40 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	HN )) HS ) HS ) HS ) HS ) Weight 0 10000E:01 volume 0 22145E:02 pm1 9 133 ppm2 HS )	resid 21 and name [R] )) resid 21 and name [R] )) resid 21 and name RN )) resid 22 and name RN )) resid 24 and name RN )) resid 24 and name RN ))	send 18 and name HNN )) send 21 and name HNN )) 1200 peak 15411 weight 0 10000E+01 volume 0 29441E+02 ppm1 9 077 ppm2 send 19 and name HN )) send 63 and name HN ))	bend 21 and name MO24)  2 & 00 peak 155% weight 0 10000E+01 volume 0 16799E+02 ppm1 8 669 ppm2	resid 14 and name HD2t) 0 700 peak 15461 weight 0 10000E+01 volume 0 14734E+02 ppm1 6 791 ppm2 1 resid 16 and name HD2t) 1 resid 16 and name HD2t) 1 resid 14 and name HD1t)	and hame HN )) is and name HN )) is and name HN )) is and name HN ) and name HN )) is and name HN ))	and name HN )) and name HB2 )) peak 15501 weight 0 100005.01 volume 0 11421E+02 ppm1 8 609 ppm2 and name HN ))

1 321	1.627	1 324	0.772	1 068	1 900	1 083	, 61 E A R	2 2 9 8	2 .762
1 547 ppm2	1 994 ppm2	1 600 ppm2	1 596 ppm2	1 205 ppm2	3.031 ppm2	2 585 ppm2	3 621 ppm2	2 880 ppm2	4.831 ppm2
0.26563E+03 ppml	0 31139E+02 pPm1	0 28598E+03 ppm1	0 27968E+02 ppm1	0 36076E+03 ppml	0 10300E+03 ppm1	0.33897E+02 ppml	0 17926E+02 ppml	0 10808E+03 ppml	0 17461E+03 ppml
0 10000E+01 volume (	10000E+01 volume	10000E+01 VOlume	0 10000E+01 volume (	10000E+01 volume	0 10000E+01 volume (	0,10000E+01 volume 0	0 10000E+01 volume	0.10000E+01 volume	0.10000E+01 volume +
1.700 1.700 park 5712 weight 1.700 1.700 park 5712 weight 1.850 and reald 56 and name HDIN PBFD and reald 102 and name HDIN	( regoid 'SPIO' and resid 115 and name RG22)) ( (regoid 'SPIO' and resid 115 and name RG21)) ASI ( segal 'SPIO' and resid 55 and name RG2 )) ( regoid 'SPIO' and resid 55 and name RG2 )) 1 700 and resid 25 and name RG2 ) ( regoid 'SPIO' and resid 25 and name RG2 ) ( (regid 'SPIO' and resid 25 and name RG2 ) ( (regid 'SPIO' and resid 102 and name RG1 )) ( (regid 'SPIO' and resid 102 and name RG2 ))	( cegyd 'BrD' and read 56 and name HB24)  ( cegyd 'BrD' and read 22 and name HB24)  ASST ( '913 PrD' and read 21 and name HB24)  ( eegyd 'BrD' and read 21 and name HB24)  ( eegyd 'BrD' and read 10 and name HB24)  OR ( 912)  ( eegyd 'BrD' and read 100 and name HB24)  ( eegyd 'BrD' and read 101 and name HB24)  ( eegyd 'BrD' and read 101 and name HB24)	(914) eegid "ErD" and reaid 21 and hame HG24) eegid "ErD" and reaid 78 and name HD14) 3 800 3 600 1 700 peak 9142 meight eegid "ErD" and reaid 21 and hame HG24) eegid "ErD" and reaid 21 and hame HG24)	DED and resud 21 and name 1 000 1.600 peak 9192 2100 1.600 peak 9192 210 and name 910 and name 910 and name 910 and resud 31 and name 910 and resud 78 and name	and name RG1 )) and name HG2\(\frac{1}{2}\) bak 9662 weight and name RG1 )) and name HG1)) and name HG1)) and name HG1)	1 900 peak 10002 weight eaid 42 and name HG1k) eeid 35 and name HG1k) 2.400 peak 10092 weight	and name HG1 }) and name HB }) and name HB1 }) and name HG1 }) eak 10182 weight and name HG1 })	and name HG1 )) and name HG1 )) and name HG1 )) and name HG1 )) and name HB2 )) and name HB2 ))	HB1 )) HB1 )) HB1 )) HB4 ) Weight HB1 )) HB4 ) Weight HB1 )) HD1 ))
									ستخس
	1 177	2 314	1 617	5 5 6 4 6 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6	2 660	2 310	4 626	623 9	6 6 9 5 6 9 5 6 9 6 9 6 9 6 9 6 9 6 9 6
	4 654 ppm2 1 377					1 401 ppm2 2 310		1 645 ppm2 4 629	1 254 ppm2 1 635
	0.48663E+02 ppml 4 854 ppm2 1	0 251318+02 ppm1 4 605 ppm2 2	0 51959E+02 ppml 4 557 ppm2 1	O 59988K+02 ppm1 3 335 ppm2 2	10000E+01 vclume 0.30661E+02 ppml 5 296 ppml 2	0 72543E+03 ppml 1 401 ppm2 2	0 19700E+03 ppml 0 414 ppm2 4	O 24926B+O3 ppml 1 645 ppm2 4	1 254 ppm2 1
and name and name and name	mane (1011)  2.2 weight 0 10000E+01 volume 0.48663E+02 pgml 4 854 ppm2 1  anne HG24)  anne HG24)  anne HG24)  anne HG34)  anne HG34)  anne HG34)  anne HG34)	name NG2t) name NG2t)  Anne NG2t)	Top and name HD, )) 2 100 pask 7742 weight 0 10000E+01 volume 0 51959E+02 pgml 4 557 ppm2 1 2 100 pask 7742 weight 0 10000E+01 volume 0 51959E+02 pgml 4 557 ppm2 1 3 100 pask 770 and name HD, ))	resid (1 min min ME)) resid (0 and name HE)) 2 200 peak (053 weight 0 10000E+01 volume 0 59988E+02 ppml 3 325 ppml 2 2 resid (1 min Men HE))) resid (4 and name HE)))	Volume 0.306518+02 ppml 5 296 ppm2 2	celd 64 and home Hb.)  celd 64 and name Hb.)  1 200 peak 8212 weight 0 10000E+01 volume 0 72542E+03 ppml 1 401 ppm2 2 and name Hg.)	HG )) HD24) HD24) W43.h; 0 10000E+01 Volume 0 19700E+03 ppm1 0 414 ppm2 4 HB2t) HA ))	and name HD24) and name HD14) and name HD14) and name HD2 ) peak 8542 weight 0 10000E+01 volume 0 24926E+03 ppml 1 645 ppml 4 and name HA ))	"BED" and read 56 and name H0.14) "BED" and read 64 and name H0.14) "BED" and read 62 and name H0.14) "BED" and read 64 and name H0.14) "BED" and read 56 and name H0.24) "BED" and read 56 and name H0.24) "BED" and read 56 and name H0.24) "BED" and read 55 and name H0.24) "BED" and read 56 and name H0.24)

12 0 791		n2 1 590		n2 2 481		ppm2 4		ppm2			ppm2	c I	During The Control of	ppm2		ppm2		ppm2		ppm2		ppm2		ppm2
3 080 ppm2		0 662 ppm2		0.415 ppm2		1 795 pp		1 254 PE			2 535 pr		id 065	1 402 pl		2 092		4 609 p		4 459 p		4 462		1 599 F
0 46826B+02 ppm1		0 214246+03 ppm1		0 14748E+02 ppml		0,16152E+03 ppml		0 24679E+03 ppm1			0 34655E+03 ppml		0 59623K+03 ppm.	0 20695E+03 ppm1		0 979858+02 ppml		0 37938E+02 ppml		0.29812E+02 ppm1		0 812698+02 ppml		0.21510E+03 ppm1
4 0 10000E+01 volume		0.10000E+01 volume		0.10000E+01 volume		0 10000E+01 volume		0 10000E+01 volume			0 10000E+01 volume		0 10000E+01 volume	0 10000E+01 volume		0.10000E+01 volume		0 10000E+01 volume		0.10000E+01 volume		0 10000E+01 volume		0.10000E+01 volume
and name HG2%) peak 13242 weight	and name HB2 ))	and name HD2%) and name HG2%) peak 13322 weight	and name	and name HD2%) and name HB1 )) peak 13352 weight	and name and name	and name HG1%) and name HA )) peak 13392 weight	and name and name	and name HD2%) and name HB2 )) peak 13592 weight	and name	and name and name	and name and name peak 13602	and name HE* ) and name HG )) and name HD2*) and name HB1 ))	peak 13762 and name	and name and name peak 13952	and name	and name and name ak 14042	6 and name HB* ) 16 and name HG12)	s and name HA )) a and name HD2%) o peak 14162 weight	and name	and name HA )) and name HB2 )) peak 14192 weight	5 and name HA )) 9 and name HB2 ))	5 and name HA )) 8 and name HB2 )) 0 peak 14202 weight	and name	2 and name HD2%) 9 and name HB2 )) 0 peak 14312 weight
*BrD * and resid 38	. 33	esid 78 esid 21	3322) segid "BrD " and resid 78 segid "BrD " and resid 22	ASSI (13354) ( eegid "BYD" and resid 18 (( seegid "BYD" and resid 14 4 200 4 200	"BrD " and resid 18 "BrD " and resid 21	( eegid "BrD " and resid 25 (( eegid "BrD " and resid 28 2 800 2 000 2 000 5 038 {13392}	( segid "BrD " and resid 25 (( segid "BrD " and resid 106 SI {13592}	{ segid "BrD " and resid 56 { segid "BrD " and resid 59 2 600 1 700 1 700	OR (13592) ( segid "BrD " and resid 56 ( segid "BrD " and resid 54 OR (13592)	9100	( segid "BrD " and resid 54 ( segid "BrD " and resid 37 2 500 1 600 1 600 1 (13602)		1 300 1 300 "BrD " and resid 63	ASSI (1955) and result 2 ASSI (1955) ( segud "BrD " and resid 14 (( segud "BrD " and resid 14 2.700 1 800 1 800	OK (19922) { segid "BrD " and resid 14 { segid "BrD " and resid 69 ASSI {14042}	segid "BrD " and resid 76 segid "BrD " and resid 73 3 100 2 400 2.400	"BrD " and resid 70 "BrD " and resid 17	( megid "BrD " and resid 15 ( megid "BrD " and resid 63 3 600 3.200 1 900 pe	OK {1442} ( segid "BrD " and resid 60 ( segid "BrD " and resid 63 ase; [14192]	segid "BrD " and resid 62 segid "BrD " and resid 68 3.700 3 400 1 800	BrD * and resid 9	ASSI [14204] ({ segid "BFD " and resid 95 (  eegid "BFD " and resid 98 3,200 2 600 2,300 pe	OR (14202) (( segid "BrD " and resid 62 ( segid "BrD " and xesid 68 ( secif (44312)	#BrD " and resid 2 1 "BrD " and resid 5 1 800 180
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ppm2 4		4 755 ppm2 2 646		4	000	, , , , , , , , , , , , , , , , , , ,	7.141 ppmz 1 42.6		ppm1 2.487 ppm2 1 660		38701E+02 ppml 3.666 ppm2 1 591	31535E+03 ppml 4 951 ppm2 2 033		0.760 ppm2 4 450		ppml 1848 ppm2 1645		1.056 ppm2 3.513		4.656 ppm2 1 414			3 177 ppm2 2.569	
volume 0 44566E+02 ppml 4 656 ppm2 4		0 710918-02 ppml 4 755 ppm2 2 646					0 47549E+02 ppm1 4.141 ppm2 1 462	!	10000E+01 volume		10000E-01 volume	0 31835E+03 ppm1 4 951 ppm2 2 033	6	0 36612 <b>8+02</b> ppm1 0.760 ppm2 4 450		0 192138+03 prm1 1 848 ppm2 1 645		O 56232E+02 ppml 1.056 ppm2 3.513		0 10372E+03 ppml 4.656 ppm2 1 414			0 10219B+03 ppml 3 177 ppm2 2.569	
0 10000E+01 volume 0 4456EE+02 ppml 4 656 ppm2 4	and name (A ))	HEBL ). 10021 )) Weight 0 100006+01 volume 0 71091E+02 ppml 4 755 ppm2 2 646	name HB1 )) name HB4 )	aumer HB2 )) Anner HB2 )) Anner HB3 ))	and name HEI 1) and name HEI 1)	and name HEA?)	eak 11552 weight o 100008+01 volume O 475498-02 ppm1	and name (122)	weight o 10000E+01 volume o 12259E+03 ppml 2.487 ppm2 1 660 182 })	803.5) 80.4 ) ) A. ) ) A. ) A. () A.	weight o loododrol volume o 3070lE+02 ppml 3.066 ppm2 1 591 (1985)	HA )) (2022 )) Weight 0.10000E+01 volume 0 31535E+03 ppml 4 951 ppm2 2 033	HA )) HG1 ))	HG2 )) HA )) Weight 0 loodoE+01 volume 0 i6612E+02 ppml 0.760 ppm2 4 450 HG2 ))	and hame RIA )) and mame RIE )	peak 12572 weight 0 10000E+01 volume 0 192138+03 ppm1 1 848 ppm2 1 645 and name HEV.)	and lame HULY) and name HULY)	and mame HB2 )) peak 1 prame HB2 )) peak 1 prame HB2 )) and name HD14)	and name HOI }) and name HA })	and name HG2%) peak 1742 weight 0 10000E+01 volume 0 10372E+03 ppml 4.656 ppm2 1 414 and name H2 ))	and name HG2() and name HA ))	and name HD1() and name HD1 ))	and mamme hav ) 2.569 pack 1.2662 weight 0.100008-01 volume 0 102198+03 ppml 3 177 ppm2 2.569 pack 1.2662 weight 0.100008-01 volume 0 102198-03 ppml 3 177 ppm2 2.569	and name HR2 ))  and name HR2 ))  and lame HD1 ))
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3,224	2 471	2 S E 4 & A 4 A	1 897	1 722	1 653	
4 656 ppm2	3.572 ppm2	3.573 ppm2	3 671 ppm2	3.671 ppm2	3 671 ppm2	
0 18586E402 ppml 0 70547E+02 ppml	0 746928+02 ppml	0 91508E+02 ppml	0 43748E+02 ppml	0 17071E+01 ppm1	0 63482E+02 ppml	
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and name HOLN) and name HES ) and name HES ) peek 1520 weight 0 : and name HCS )) and name HCS )) and name HC )) and name HC )) and name HC ) and name HC ) and name HC ) and name HC )	and name HA )) and name HB1 )) and name HB2 )) cand name HB2 )) eak 15392 weight and name HB1 )) and name HB1 )) and name HB2 ))	and name HB1 )) and name HB2 )) and name HB2 )) and name HB1 ))	d name HB1 )) d name HB1 )) d name HB2 )) d name HB2 )) d name HB1 )) d name HB1 )) d name HB2 )) d name HB2 ))	d name HB1)) d name HB2)) d name HB1)) i 15572 weight d name HB1)) d name HB1)) d name HB2)) d name HB2))	and names HE2 )) Ind names HE1t) ix 15582 weight and name HE2 )) ind name HE2 )) ind name HE1 ))	and name and name and name and name and name
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2 146	1 327	1 320	2 191 2 191	4 639	1 076 2 565	2 328
1 305 ppm2	1 154 Ppm2 1 057 Ppm2	3.867 ppm2	1 645 ppm2	1 599 ppm2	5 541 ppm2	1.058 ppm2
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	0.10000E+01 volume 0.10000E+01 volume		(00.014) (00.014) (00.014) (00.014) (00.014) (00.014) (00.014) (00.014) (00.014) (00.014) (00.014) (00.014) (00.014) (00.014)	10.24;) A 1) D24; B2 1) D27; B2 1) D1 1) C24; C25; C35; C37; C37; C37; C37; C37; C37; C37; C37	(13.1) (13.1) (13.1) (13.1) (14.1) (15.1) (16.1) (16.1) (17.1) (18.1) (1	0 10000t 10 ADTHUE
HB )) HD24) HB2 )) HD25, HD25, HB2 )) HB1 )) HB1 )) HB1 )) HB1 (HB1 ))	outd 116 and name HD14) outd 116 and name HD14) 100 peak 14462 weight 0.10000E+01 volume contd 110 and name HD14) edd 115 and name HD14) and 116 and name HD14)	and name HB1 )) and name HD3) pask 14642 weight 0 10000E+01 volume and name HD34) and name HD14) and name HD14) and name HD14)	esa4 2 and name (1014) esa4 64 and name (1014) esa4 64 and name (1014) esa4 110 and name (1012) esa4 111 and name (1012) esa4 112 and name (1012) 1 300 peak (4552 seaght to 10000E-01 volume 1 300 peak (4552 seaght to 10000E-01 volume esa4 63 and name (1013) esa4 63 and name (1024)	reaid 22 and hame MA) 1  reaid 56 and hame MA) 1  reaid 50 and name HD24) 1  reaid 80 and name HB2 1) 1  1.800 peak 14802 weaght 0 10000E+01 volume 1.800 peak 1.800 peak 14802 weaght 0 10000E+01 volume 1.800 peak	and name Hill) and name Hill) and name Hill) and same Hill) and name Hill)	HB1 )) HB2 b) HB3 b) HB3 b) HB3 b) We31ght o 100006+01 volume

1 824	1 612	1 262	1 490	4 686	2,564	7.926	7 803	7 745	7 720	7 789	4,664
උயප්ප් පු9ම ව	3.668 ppm2	4 804 ppm2	4.903 ppm2	5.544 ppm2	5 544 ppm2	0 859 ppm2	2 459 ppmz	0 859 ppm2	2.783 ppm2	-0 176 ppm2	3 227 ppm2
42104E+02 ppml	o 28702E+02 ppml	0 18200E+02 ppm1	0 13830E+02 ppm1	0 57702E+02 ppml	0 19574E+02 ppml	0 54467E+01 ppml	0 18980E+03 ppm1	0 16294E+02 ppml	0,51743E+02 ppml	0.44678E+02 ppml	0,69853E+02 ppm1
0 100005+01 Volume 0	0.10000E+01 volume q	0 10000E+01 volume 6	0 10000E+01 volume 0	0 10000E+01 volume (	0.10000E+01 volume (	0 10000E+01 volume (	0.10000E+01 volume	0 10000E+01 Volume	0 10000E+01 volume	10000E+01 volume	0 10000E+01 volume
and name HB1 )) and name HB2 )) end name HB2 )) eak 17132 weight and name HB2 )) and name HB2 ))	and name HG1t) and name HG1t) and name HG2t) and name HG2t) eak 17142 weight and name HG2t) and name HG2t)	and name HB2*) and name HG2*) and name HA )) and name HA )) and name HA )) and name HA ))	(A )) (G2 )) (e1ght (A )) (D2 k)	and name HA )) and name HA )) peak 17492 weight 0 and name HA )) and name HA ))	and name HA )) and name HEV ) peak 1752 weight o and name HA )) and name HG ))	and name HG1 )) and name HE3 )) peak 17682 weight 0 and name HG1 )) and name HZ ))	and name HG1 )) and name HZ3 )) eak 17692 weight and name HG1 ))	and name HG1 )) and name HH2 )) eak 17702 weight and name HG1 }) and name HE1 }	and name HD1 )) and name HD4 ) peak 17892 weight 0 and name HD1 )) and name HH2 ))	and name HB2 )) and name HS3 )) peak 17972 weight 0 and name HB2 )) and name HB4 )	name HG2 )) name HB2 )) 8022 weight
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OR [17122] (( segid = ( se	( 19934 'B2D ' and re	( megid ( megid ASSI (1272) ( megid ( megid 4.000 OR (17272) ( megid ( megid ( megid ( megid ( megid	ASSI (17322) (( segid ( ' segid (	(( segid (( segid 3 300 OR (17492) (( segid (( segid	ASSI (17522) ( Begood 4.000 OR (17522) ( Begood ( Begood )	ASST (1782A (1 eegd (17682) OR (17682) (2 eegd (17682)	ASSI (17692 ( meglad ( meglad ( meglad 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(( segid (( segid 4 100 OR (17702) (( segid ( segid	ASSI (17892 (1 eegld 1 eegld 1 400 OR (17892) (1 eegld (1 eegld	ASSI (17972 (( segid ( segid 3 500 OR (17972) (( segid ( segid	ASSI [18022] ( segid " ( segid " ( segid " 3 200 OR [18022]
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1 433	1 645	0 8 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 401	3 691	4.804	4 808	4 995		0 80 00 00 00 00 00 00 00 00 00 00 00 00	7.754	1 824
S 148 ppm2 1 433			3 522 ppm2 1 401		3.132 ppm2 4.804	4 004 ppm2 4 808	3 620 ppm2 4 995		3 670 ppm2 7 896	3 366 ppm2 7.754	3 721 ppm2 1 824
1 668 ppm2 1	3 522 ppm2 1	3 571 ppm2	3 522 ppm2 1	4 409 ppm2 3	3.132 ppm2	4 004 ppm2 4	3 620 ppm2 4		3 670 ppm2 7	3 366 ppm2	3 721 ppm2
1 668 ppm2 1	0 27740E+02 Epml 3 522 ppm2 1	0 11543E+03 ppml 3 571 ppm2 1	0 131068+03 ppml 1 522 ppm2 1	0 24633E+02 ppml 4 409 ppm2 3	3.132 ppm2	0 28094E+02 ppml 4 004 ppm2 4	0 731755+02 ppml 3 620 ppm2 4		0.10680E+03 ppml 3 670 ppm2 7	0 46090E+02 ppml 3 366 ppm2	0 477918+02 ppml 3 721 ppm2 1
HO24)  HA ))  HA ))  HA ))  HO34)  HO35)  HO37)	HD11) HD21) HB2 ); HB2 ); Wealght 0 10000E+01 Volume 0 27740E+02 ppml 3 522 ppm2 1 HB2 ); HB3 ); HB3 );	ak 16361 weight 0 10000E+01 volume 0 11543E+03 ppml 3 571 ppm2 1 and name HE1 )) and name HE1 )) and name HE1 )) and name HE2 )) and name HE2 ))	and name HB1.)  and name HE1.)  and name HE1.)  and name HE1.)  and name HE1.)	and name At 7) peak 16482 weight 0 10000E+01 volume 0 24633E+02 ppml 4 409 ppm2 3 and name HA )) and name HB ))	(M. 1) (M. 1) ea.ght 0 10000E+01 volume 0 16756E+02 ppml 3.132 ppm2 482 ))	and name HB1 )} and name HB1 )} peak 16562 weight 0 100008+01 volume 0 28094E+02 pgml 4 004 ppm2 4 and name HB1 )} and name HB1 }}	and name HB1 )		and hame HSk )  reak 16852 weight 0 100008+01 volume 0.10680E+03 ppml 3 670 ppm2 7  and hame HSk )  and name HSk )	HH2 ) 1566 ppm2 weight 0 10000E+01 volume 0 46090E+02 ppm1 3 366 ppm2 HH2 ) HH2 (HH2 ) HH2	HBE )  HBE )  HGIV  weight 0 10000E+01 volume 0 47791E+02 ppml 3 721 ppm2 1
and hame HO24) and name HA24) and name HA34)	HD11) HD21) HB2 ); HB2 ); Wealght 0 10000E+01 Volume 0 27740E+02 ppml 3 522 ppm2 1 HB2 ); HB3 ); HB3 );	and name HD14)  peak 16162 waight 0 10000E+01 volume 0 11543E+03 ppml 3 571 ppm2 1  and name HB2)  and name HB2)  and name HB2)  and name HB2)	Tenisd So and name HBL)   1	Seaso 49 and name NA // Tread 65 and name NE!) 1 1 700 peak 16482 weight 0 10000E+01 volume 0 24633E+02 ppml 4 409 ppm2 3 resad 107 and name HA // resad 106 and name HB!)	reald 56 and name HB2 )) 1 400 peak 16572 waight 0 10000E+01 volume 0 16756E+02 ppml 3.132 ppm2 1 200 peak 16572 waight 0 10000E+01 volume 0 16756E+02 ppml 3.132 ppm2 reald 96 and name HB2 ))	and name HBL )) and name HAL )) peak 16562 weight 0 100008+01 volume 0 28094E+02 ppml 4 004 ppm2 4 and name HBL )) and name HBL ))	and name HB1 )	and name and name and name	reard 107 and name HEN ) 2 200 peak 16852 weight 0 100006+01 volume 0.10680E+03 ppml 3 670 ppm2 7 2 reard 107 and name HEN ) Exemal 07 and name HEN )	and name HHz )) peak 17112 weight 0 10000B+01 volume 0 46090E+02 ppml 3 366 ppm2 and name HHz )) and name HHz )	Anama 1801 ) Hance HB1 ]) Hance HB1 ]) Hance HB1 )  Hance HB1    Hance

1 588	1 657	2 126	2 344	4 289	1 043	2 768	2 466	2 719	4 810	4 672	4 672
2 635 ppm2	2.635 ppmz	2 635 ppm2	2 636 ppm2	2 931 ppm2	4.508 ppm2	1.697 ppm2	2 289 ppm2	2.289 ppm2	2 289 ppm2	2.486 ppm2	2.503 ppm2
0 S8075E+02 ppm1	54622E+02 ppml	0 20227E+03 ppm1	0 30880E+02 ppm1	0 84483E+02 ppml	0 30551E+03 ppm1	92899E+01 ppml	0 33671E+02 ppml	0 60076E+02 ppml	0 34186E+02 ppm1	0.27108E+02 ppm1	0.22156E+02 ppml
10000E+01 volume	0.10000E+01 vclume 0	0 10000E+01 volume 0	0 10000E+01 volume 0	0 10000E+01 volume 0	0.10000E+01 volume 0	10000E+01 volume 0	0.10000E+01 volume 0	0.10000E+01 volume 0	0 10000E+01 volume 0	0.10000E+01 volume 0.	0.10000E+01 volume 0.
HE% ) HG12)) Weight 0 HE% )	HG24) HG14) Weight HEV ) HG12))	and name HEY ) and name HBZ ) peak 18912 weight 0 and name HEY ) peak 18912 weight 0 and name HEY ) s and name HEY )	and name HE* ) and name HG11]) ak 18942 weight and name HE* ) and name HB ))	and name HEI )) and name HEI )) and name HEI )) and name HOI )) ak 18962 weight	and name HB1 )) and name HB2 )) and name HB2 )) peak; 19022 weight 0 and name HR 1) and name HA ))	name HB*) name HB1 )) 9222 weight 0 name HB*)	and name HB%) and name HB1 )) peak 19332 weight 0 and name HB%) and name HB%)	name HB\$ ) .9342 weight name HB\$ ) name HB\$ )	HB() HA )) Welght HB() HA()		and name HB1 )) peak 19462 weaght 0.3 and name HB1 )) and name HB1 )) and name HB4 ))
5 6 5	2 100 2 100 2 100 2 100 2 100	reard 75 reard 21 reard 75 reard 14 1 800 1 800 1 800 1 801 1 801	1800 pe	<u> </u>	resid 37 resid 75 resid 78 1 600 resid 75	SSI (1922) ( leegad "BRD" and read 43 ( leegad "BRD" and read 42 4 500 4.500 1 000 pc R [1922] ( leegad "BRD" and read 43 ( leegad "BRD" and read 44	esid 31 1 900 1 900 esid 31	esid 31 2 200 2 200 esid 31	reald 31 reald 29 1 900 pc reald 31 reald 24	resid 73 resid 72 1.700 resid 73 resid 69	resid 72 1 600 resid 73 resid 73 resid 69
( segid "B: (( segid "B) 3 300 OR [1882] ( segid "B:	( 0.0524   92.0 and r. ASSI (1.8522   92.0 and r. ( 0.9534   92.0 an	( segad mg	( seg1d "BED" and re ( seg1d "BED" and re	( segid "Bi ( segid "Bi ( segid "Bi ( segid "Bi ( segid "Bi OR [18962)	(( eegad 'BED' and (( eegad 'BED' and (	ASSI {19223} ( Begid "Bi ( Gegid "Bi 4 500 OR {19222} ( Begid "Bi ( Begid "Bi	ASSI (1932) ASSI (1932) (( segid "BrD" and r. 3.600 3 200 OR (19312) ( segid "BrD" and r. )	ASSI (1982) ( seedid "BLD" and (( seedid "BLD" and 3.300 2 700 OR (19342) ( seedid "BLD" and ( seedid "BLD" and ASSI (19402)	( eegid "BrD" and (( eegid "BrD" and 3 600 OR [19402] 3 200 ( eegid "BrD" and (( eegid "BrD" and ASI (1945)	( segad "BrD" and ( segad "BrD" and ( segad "BrD" and 19452) ( segad "BrD" and ( segad "BrD" and ASSI { 19462}	(( segid "BFD" and ( segid "BFD" and ( segid "BFD" and ( segid "BFD" and ( segid "BFD" and ASSI [13472)
											J.
		3 597	4 631	e 000 s	2 841	2 361	2 312	2 118	4 663	4 383	52.2
					2 761 ppm2 2 641	2 782 ppm2 2 361	2 782 ppm2 2 312	2 780 ppm2 2 118			
		3 226 ppm2 3	2 782 ppm2 4	2 782 ppm2 3	2 781 ppm2 2	2 782 ppm2 2	2 782 ppm2 2	2 760 ppm2 3	ppm1 2 615 ppm2 4	2.633 ppm2 4	2 634 ppm2 7
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and name HO2 )) and name HO )) and name HO2 ))		0 10000E+01 volume 0.48637E+02 ppml 3 226 ppm2 3	164 ) 162 )) Weight o loocogrol volume o 44998B-O2 ppml 2 782 ppm2 4 183 ))	0 100008+01 volume 0 33097E+02 ppml 2 782 ppm2 3	0 10000S+01 volume 0 31606E+04 ppml 2 781 ppm2 2	0 100006+01 volume 0 331736+03 ppml 2 782 ppm2 2	0 10000E+01 volume 0 54116E+01 ppml 2 782 ppm2 2	0.10000E+01 volume 0.16595E+03 ppml 2 780 ppm2 2	0.10000E+01 volume 0 2437EE+03 ppml 2 635 ppm2 4	0.100008+01 volume 0 138738+02 ppm1 2.633 ppm2 4	Et ) Resght 0 100008+01 volume 0 36365R+02 ppm1 2 634 ppm2 7 RR )
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4,564	1 425	2 149	1 222	<b>4</b>	2 352	2 320	1 997	1 319	1 730
1 994 ppmz	1.995 ppm2	4 853 ppm2	4 853 ppm2	1 747 ppm2	1 747 ppm2	4 656 ppm2	2.832 ppm2	4 656 ppm2	4 656 ppm2
0.29578E+02 ppml	0.21357E+03 ppm1	0 54504E+02 ppml	0 12632E+02 ppm1	0 69704E+03 ppml	0 34655E+03 ppm1	0 473358+03 ppm1	. 0 871,776+02 ppm1	. 0 25940B+02 ppml	0 56653E+03 Ppm1
0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	o 10000E+01 volume	0 10000E+01 volume	. 0 10000E+01 volume
400 1 800 peak 20122 weight " and resid 113 and name HB% ) " and resid 17 and name HA ))	sad 113 and name 14 and name 1500 peak 20152 113 and name 113 and name	and result 113 and name Hith 1 and name Hith 1 and 1 and name HB 11 and name HB 2 and name HB 3 and name HB 3 and name HB 1 and name HB 1	and resid 17 and name HB )) and resid 109 and name HB )) and resid 109 and name HB ) 300 1 200 pack 2020 warght and resid 110 and name HB ) and resid 110 and name HB )	and resid 17 and name HG2k) "and resid 14 and name HA ) 1 200	o and reald 17 and hame HG2t) and reald 20 and name HB1 )) and reald 17 and name HG2t) and reald 17 and name HG2t) 1 600 1 600 peak 20562 weight	resid 17 and name resid 21 and name resid 20 and name resid 21 and name resid 21 and name resid 20 peak 20132 resid 20 and name resid 19 and name	resid 20 and hame resid 112 and hame resid 112 and hame 2 400 peak 20612 resid 112 and hame resid 112 and hame	resid 112 and resid 113 and resid 111 and 170 peak 170 peak resid 104 and resid 102 and resid 72 and	and treatd 115 and name and restd 112 and name and restd 102 and name and restd 72 and name and restd 61 and name and restd 62 and name 700 2 200 peak 20662 and name and restd 67 and name and restd 67 and name and restd 67 and name
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ppm2 2	0 10000E+01 volume 0 21948E+04 pgml 2 092 ppm2 1	0 10000E+01 Volume 0 63693E+02 ppm1 2 190 ppm2 3	0 100008+01 Volume 0.139418+02 ppml 4 261 ppm2 4	0 100006+01 volume	0 100008+01 volume 0.364548+02 ppml 4 903 ppm2 2	0 10000E+01 volume 0 55030E+02 ppm1 4 903 ppm2 4	0 10000E+01 volume 0 18667E+03 ppml 1 991 ppm2 2	0 100008+01 volume 0.226608+02 ppml 1.990 ppm2	0 100008+01 Volume 0 613198+02 ppml 1 990 ppm2 2 0 100008+01 Volume 0.629118+02 ppml 4.411 ppm2 1.
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	4394E+02 ppml	0 98918E+02 ppm1		33579E+01 ppml		60830E+02 ppm1		23532E+03 ppml			0.37412E+02 ppml		11144E+03 ppm1			78059E+02 ppml		0.930828+02 ppml			0.25206E+02 ppm1		89355E+02 ppml	
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and hame and name	and name HEt ) peak 21152 weight and name HA )) and name H82 ))	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	and name HG2%) and name HB1 ))		and name HB )) and name HD2*)	and name HG1*) and name HB* ) peak 21432 weight	and name HG11)	HG14) HB1 )) weight	and name HG1*)	and name HG1*) 6 and name HB2 })	and name HA )) and name HD1 )) eak 21502 weight	and name HA )) and name HB2 ))	and name HG2*) and name HA )) peak 21552 weight	and name HG2%) and name HA ))	and name and name	and name HG1%) and name HA )) peak 21572 weight	and name HG14) and name HA ))	and name HG1%) and name HA )) peak 21592 weight	and name HG1%) and name HA ))	and name HG1%) and name HA })	and name HG1%) and name HB1 )) peak 21612 weight	and name and name	and name HG1%) and name HE% ) ak 21652 weight	and name
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and name Hz, )) and name HG11)) and name HG11)	HA )) ((12)	Tame HOLK) Trame HOLK)	NA )) HB2 ))	and name (HA ) ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (	name NG2t)	882 ); 804 ) )	weight 0 10000E+01 volume 0 18983E+03 ppml 4 656 ppm2 1 547 hs. )	(101) (201)	na.v, volume 0 985678+02 ppml 1 648 ppm2 7 517 Ol eneight 0 100008-01 volume 0 985678+02 ppml 1 648 ppm2 7 517 Ol eneight 0 100008-01 volume 0 985678+02 ppml 1 648 ppm2 7 517 Ol	name HDk ) name HDZ )	(187)	l81 ) 1621   1000008+01 volume 0 601718+02 ppml 1 650 ppm2 7 791 1638	10 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	weight 0 10000E+01 volume 0 35051E+02 ppml 1 649 ppm2 4 282 0321	(b. 1) (cat)	002 )) weight ( 10000E+01 volume ( 23144E+03 pgml 1 648 ppm2 2 833	100.2.)	(82.1) (00.4)	H81 )) weight 0 10000E+01 volume 0 34384E+03 ppml 1 649 ppm2 2 700	name NGC*) name HGC*		881 ) ) (1) (2) (3) (4) (5) (6)	weight 0 10000E+01 Volume 0 32059E+03 ppml 1 649 ppm2 2.508 HR24),	
and name (K )) and name H(J))	cand 26 and name HA )) 2 200 peak 26672 weight 0 10000E+01 volume 0 583138+02 ppml 4 656 ppm2 1 661 and name HA))	and home (A.)	ereald 61 and name HA ))	resid 23 and name HA )) resid 25 and name HA2%) resid 61 and name A2 ))	end 56 and name HG2k) and 67 and meme HA ))	Ani resu o. and mame ma. 7/ mind resid 67 and mame HA. ).	1 800 peak 20682 weight 0 10000E+01 volume 0 18981E+03 ppml 4 656 ppm2 1 547 84 and name NA ))	and name RD11) and name HG21)	real, v and name max ) . 2 400 pack 20792 weight 0 10000E+01 volume 0 98567E+02 ppml 1 648 ppm2 7 517 00	and name HDk ) and name HDk )	reald 74 and name HEt )  reald 55 and name HCt!  vestd 55 and name HCt!	fed.10 peak 20020 mom HEV ) 4. A.	resid 6s and name HDk } resid 2s and name HD34)	1.900 peak 20842 weight 0 100005+01 volume 0 35063E+02 ppml 1 649 ppm2 4 282 Treatd 58 and name HG24)	(b. 1) (cat)	resid 61 and name HG2 )) 1700 peak 120202 weight 6 10000E+01 volume 6 23144E+03 ppml 1 646 ppm2 2 833	= 3.4 John minner Roza)	(82.1) (00.4)	resid to and lamm HELI)  1.00 peak 2.100 weight 0 10000E+01 volume 0 34384E+03 ppml 1 649 ppm2 2 700  resid to and news HOSE)	coad di and mame Roat) cead di and mame Roat)	HGI )) HG24)	Cenid 22 and name HBB )) cenid 59 and name HCB))	1 600 peak 21112 weight 0 10000E+01 volume 0 12059E+03 ppml 1 649 ppm2 2.508  2.508  2.508  2.508	resid 8.3 and announce 17.5 resid 9.3 and announce 10.3 resid 7.5 and announce 10.3 resident 10.3 re

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0 93859K+02 ppml	0.10852E+03 ppml		0 244948+01 ppml	0 72079£+02 ppml	0 53886£+02 ppml			0 67221E+02 ppm1		0 36871E+03 ppm1	0 23831E+02 ppm1		0.13092E+03 ppml		0 13327E+03 ppml		0 26018E+02 ppml
10000E+01 volume	10000E+01 volume		10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume			0.10000E+01 volume		0.10000E+01 volume	0 10000E+01 volume		0.10000E+01 volume		0.10D00E+01 volume		0.10000E+01 volume
and name HG2 )) and name HA )) peak 73212 weight	and name HG1 )) and name HA )) and name HG1 )) and name HG2*) peak 23252 weight	and name HG1 )) and name HB2%) and name HA ))	peak 23382 weight and name HA )) and name HD2 ))	and name HA )) and name HA )) eak 23392 weight and name HA ))	and name and name ak 23512	and name HA )) and name HA )) and name HA ))	and name HA ))	and name HA )) and name HA )) and name HD1%) k 23682 watche	and name HA ))	ind name ind name ik 23772	and name HA )) and name HA )) and name HA )) peak 23792 weight	and name HG1 ))	and name HA )) and name HEV ) peak 23872 weight	and name HA ))  6 and name HDV)  and name HA ))	and name	and name	and name HA )) peak 23902 weight and name HA )) 6 and name HA ))
BrD " and resid 44 BrD " and resid 44 2 400 2 400	OR (2021) ( eggid "BTO" and reald 6 and name HG1 )) ( ( eggid "BTO" and reald 7 and name HG1 )) ASSI (2022) ( eggid "BTO" and reald 11 and name HG1 )) ( eggid "BTO" and reald 50 and name HG2) ( a eggid "BTO" and reald 50 and name HG2) ( a eggid "BTO" and peak 2022) weaght o	OR (23232) ( segal 'BED' and reald 11 and name HO1 )) ( segal 'BED' and reald 14 and name HO21) ( segal 'BED' and reald 100 and name HA )) ( segal 'BED' and reald 100 and name HA ))	\$ 500 \$ 500 0.000 (23382) (4 eegid "BrD " and resid 6 (6 eegid "BrD " and resid 6 (6 eegid "BrD " and resid 8 ASSI (23392)	'BrD " and re 2 500 'BrD " and re	( segad "BrD" and resid 8 I {23512} 8 ( segad "BrD" and resid 10 ( segad "BrD" and resid 11 3 400 2 900 2 100 p ( 23512)	(( segid "BrD " and resid 10 ( segid "BrD " and resid 9 ASSI [23882] ( segid "BrD " and resid 12 ( segid "BrD " and resid 15	OR (2382) (( segid "BrD " and reaid 12 (( segid "BrD " and reaid 16 OR (23882)	( eegid "BrD" and resid 14 ASSI {23682} ({ eegid "BrD" and resid 14 ({ eegid "BrD" and	OR [2362] ( segatd "BED" and reald 80 ( segatd "BED" and reald 81 ASSI [23772]	"BED " and resid 14 "BED " and resid 15 1 400 1 400 "BED " and resid 109	( degid "BTD" and resid 109 cf ( degid "BTD" and resid 17 g ( degid "BTD" and resid 14 cf ( eegid "BTD" and resid 19 cf ) 3 900 3 800 1.600 pee	13792} segad "BrD" and reard 109 and name HG1 )) aegad "BrD" and reard 18 and name HA )) aeg14 "BrD" and reard 18 and name HA ))	"BrD " and resid 18 "BrD " and resid 74 2 100 2.100	( segid "BrD " and resid 18 segid "BrD " and resid 106 I (23892)	2 100 2 100 "BrD " and resid 18	OR (23852) (1 segad "BrD" and resid 18 (5 segad "BrD" and resid 14 ASSI (23902)	egid "BrD" and resid 17 1,800 1,600 1 700 p 23902 BrD" and resid 18 segid "BrD" and resid 18
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0 10000E+01 volume 0.24706E+02 ppml		0 10000E+01 Volume 0.15236E+02 pgml	0 10000E+01 volume o 16533E+02 ppm1	0 10000E+01 volume 0.10950E+04 ppml	0 10000E+01 volume 0 38794E+02 ppml	0 10000E+01 Volume 0 12806E+04 ppml	0 100000£+01 volume 0.40568£02 pm.1	0.10000E+01 Volume	0 100005401 Volume 0 246915+03 ppm1	0.10000E+01 volume 0 64481E-01 ppml
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4 509	& 82		4 828 4	4.824	4. () ()	3 670	3,671	4 655	4 8 5 5 6 5 5		4 428
1 254 ppm2	1 154 ppm2		1 253 ppm2	1 154 ppm2	1 154 ppm2	1 154 ppm2	251	1.401 ppm2	1 401 ppm2		1 400 ppm2
0 901318+02 ppm1	0 152566+03 ppml		0 15787E+03 ppml	0 95882E+02 ppm1	0 11502E+03 ppm1	0 70430E+02 ppm1	0 38059£+02 ppml	0 26885E+03 ppml	0 26059E+02 ppm1		0 367228+02 ppml
0 10000E+01 volume 0	0 10000E+01 volume C		0 10000E+01 volume (	0 10000E+01 volume (	0 10600E+01 volume (	0 10000E+01 volume		0.10000E+01 volume	0 10000E+01 volume		0 10000E+01 volume
resid 110 and name MG2%) resid 114 and name HA2 )) 2 400 peak 25862 weight (	110 and name HG2‡)  75 and name HA ))  110 and name HD1‡)  14 and name HA ))  000 peak 25872 weight	resid 11 and name HD.1) resid 110 and name HD.1; resid 111 and name HD.1; resid 110 and name HD.1)	and name HG2*) and name HA )) eak 25882 weight and name HG2*)	and name HA 1) and name HD1*) and name HB )) eak 25892 weight and name HD1*)	115 and name HA  ) 110 and name HD1\$) 106 and name HA  ) 100 peak 25902 weight 110 and name HD1\$)	and name HD1%) and name HA1 )) and name HD1%) and name HD1%) ead name HB2 ))	and name HD1%) and name HB1 )) and name HG2%) and name HB1 ))	nd name HG2%) ind name HB2 )) ind name HB2%) ind name HG2%) ind name HA }) ik 26202 weight	ind name HG2%) ind name HA )) ind name HD1%) ind name HA )) ik 26312 weight	resid 116 and name HA )) resid 118 and name HA )) resid 116 and name HA )) resid 111 and name HA )) resid 116 and name HD1k)	and name Ha !) and name Ha !) and name HG21) and name HG21 and name HG24 and name HG24 and name HB !) and name HB !)
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and hame HB }} peak 25172 weight 0 10000E+01 volume 0 95979E+02 ppml 1.205 ppm2 4 and name HU18}	and name Hb )) and name HD1) and name HET ) and same HET ) and name HET ) and name HET ) and name HD1)	and name HA )) and name HA )) eak 25192 weight 0 10000E+01 volume 0 50125E+02 ppml 4 804 ppm2 4 and name HA )) and name HA ))	and name HG2%) and name H3)) eak 25602 weight 0 10000E+01 volume 0 54447E+02 ppml 1 596 ppm2 and name HG2%)	and name HG24) and name HB1 )) eak 25622 weight 0 10000E-01 volume 0 55968E-02 ppml 1 599 ppm2 3 and name HG24)	and name HGZ4) and name HBZ )) eak 25632 weight 0 10000E+01 volume 0 10841E+02 ppml 1 599 ppm2 3 and name HGZ4) and name HBZ ))	and name HD14) and name HB1 )) and same HB1 ) and same HB1 ) and same HB1 ) and name HB1 ) and name HB1 ))	and name HD14) and name HD14 and name HD14 and name HD14 and name HB14)	21 and name HD2 ) 1 and name HD2 ) 5 and name HB4 ) 6 peak 25702 weight 0 10000E+01 volume 0 11881E+02 ppml 1 599 ppm2 2	and name and name and name and name	and name HB1) 1 1 599 ppm2 2 and name HB2) 1 2 ppm2 2 and name HB2) 1 2 and name HB2) 1 2 and name HB2) 1 2 and name HB2) 2 and name HB2) 2 and name HB2) 3 an	and have (KC24) and name (HC24)
resid 17 and name HB )) 2 400 peak 25172 weight 0 10000E+01 volume 0 95979E+02 ppml 1.205 ppm2 4 resid 21 and name HD18)	HA )) HUD14) HIER ) Weight o loocode+ol volume 0.25847E+03 ppml l 204 ppm2 7 HUD14)	reald 98 and name HA )) 2 loo peak 25392 weight 0 loooDE+01 volume 0 50125E+02 ppm1 4 804 ppm2 4 2 and name HA )) reald 98 and name HA ))	reaid 21 and name HG24)  resid 20 and name HB1 )) 2 loo peak 25602 weight 0 loodoE+O1 volume 0 54447E+O2 ppml 1 596 ppm2  repid 21 and name HG24)  repid 109 and name HR24)	resid 21 and name HG2\$) resid 105 and name HB1;) 2 loop peak 25622 weight 0 10000E.01 volume 0 55968E.02 ppml 1 599 ppm2 3 resid 101 and name HB2;)	coid 21 and name MGZ4) esid 106 and name HBZ 1) 1100 pcak 25632 weight 0 10000E+01 volume 0 10043E+02 ppml 1 599 ppm2 3 esid 21 and name HGZ4) esid 21 and name HGZ4)	name HD1%)  name HB1 ))  672 weight 0 10000E+01 volume 0 84040E+02 ppml 1.550 ppm2 2  name HB1 ))	rebid 101 and name HD14) 1 700 each 2562 mam HG21 ) 1 700 each 2562 mam HG21 ) 1 700 each 2562 mam HG21 ) 2 rebid 101 and name HG14 ) 1 regid 99 and name HG14 )	besid 101 and name HD14) seid 31 and name HD2 1) seid 21 and name HB2 1) 1 200 peak 25702 Weight 0 10000E+01 volume 0 11881E+02 ppm1 1 599 ppm2 2	"BPD" and resid 21 and name "BPD" and resid 22 and name "BPD" and resid 31 and name "BPD" and resid 37 and name "BPD" and resid 37 and name	HB1 ) MC24) MC21) MC21) MC21) MC21) MC21) MC21) MC21) MC21) MC22)	and name Will)

and name and name and name ak 27592 and name and name	And name HG12 } Intel name HD24	and name and name and name peak 27852 and name and name	and resuld 10 and name HB2 1)  400 1 800 peak 27854 weight 0 10000E+01 volume 0 13112E+02 ppm. 1 054 ppm2 1 629  400 1 800 peak 27854 weight 0 10000E+01 volume 0 13112E+02 ppm. 1 054 ppm2 1 629  400 1 800 peak 27854 weight 0 10000E+01 volume 0 13112E+02 ppm. 1 054 ppm2 1 629  400 resuld 3 and name HB2 1)  400 resuld 4 and name HB2 1)  400 resuld 7 and name HB1 10 0 10000E+01 volume 0 80432E+03 ppm. 0 751 ppm2 7 031  400 2 300 peak 27952 weight 0 10000E+01 volume 0 80432E+03 ppm. 0 751 ppm2 7 031	### ### ### ### ### ### ### ### ### ##	resid 76 and name HD24) resid 76 and name HD24) resid 70 and name HD24) resid 10 and name HD24) resid 104 and name HD24) resid 104 and name HD24)	and name
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cak 26362 weight and name HD1 and name HB2 and name HB and name HA and name HA eak 26512 weight AB and name HB and name HA and name HA	( eegid "BED" and reald 116 and name HB )) (( cegid "PED" and reald 12 and name HB )) (( cegid "PED" and reald 89 and name HB )) (( cegid "BED" and reald 89 and name HB )) (( cegid "BED" and reald 89 and name HB )) (( cegid "BED" and reald 89 and name HB )) ASSE ( cegid "BED" and reald 89 and name HB )) ASSE ( 27292) (( cegid "BED" and reald 99 and name HB )) (( cegid "BED" and reald 99 and name HB )) (( cegid "BED" and reald 99 and name HB )) (( cegid "BED" and reald 32 and name HB ))	2.200 poak 27222 resid 13 and name resid 60 and name resid 77 and name re 1300 peak 27302 resid 73 and name resid 73 and name resid 73 and name	(1 cegard *PED * and resuld 7 and hame (FG ) (1 cegard *PED * and resuld 5 and hame (FG )) (2 cegard *PED * and resuld 5 and hame (FG )) (2 cegard *PED * and resuld 56 and hame (FG )) (3 cegard *PED * and resuld 56 and hame (FG )) (4 cegard *PED * and resuld 56 and hame (FG )) (5 cegard *PED * and resuld 56 and hame (FG )) (6 cegard *PED * and resuld 56 and hame (FG )) (6 cegard *PED * and resuld 56 and hame (FG )) (6 cegard *PED * and resuld 50 and hame (FG )) (6 cegard *PED * and resuld 51 and hame (FG )) (6 cegard *PED * and resuld 51 and hame (FG )) (6 cegard *PED * and resuld 52 and hame (FG )) (6 cegard *PED * and resuld 54 and hame (FG )) (7 cegard *PED * and resuld 78 and hame (FG )) (7 cegard *PED * and resuld 78 and hame (FG )) (7 cegard *PED * and resuld 78 and hame (FG )) (7 cegard *PED * and resuld 78 and hame (FG ))	( segard "BrD" and resuld 22 and name (D114) ( segard "BrD" and resuld 22 and name HB )) ( segard "BrD" and resuld 22 and name HB )) ( segard "BrD" and resuld 22 and name (D114) ( segard "BrD" and resuld 21 and name (B11) ( segard "BrD" and resuld 22 and name (B11) ( segard "BrD" and resuld 22 and name (B11) ( segard "BrD" and resuld 24 and name (B12) ) ASSI (27482) ( segard "BrD" and resuld 24 and name (B12) ( segard "BrD" and resuld 24 and name (B12) ) 2 200 2 500 2 300 peek 27482 weight 200 2 300	( segid "BTD" and reset 22 and name HD24) (( segid "BTD" and reset 22 and name HD34) ASSI (7762) (( segid "BTD" and reset 22 and name HD34) (( segid "BTD" and reset 22 and name HD34) (( segid "BTD" and reset 22 and name HD34) (( segid "BTD" and reset 22 and name HD34) (( segid "BTD" and reset 32 and name HD34) (( segid "BTD" and reset 32 and name HD34) (( segid "BTD" and reset 32 and name HD34)	nd name nd name k 27542 nd name nd name nd name nd name nd name nd name

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0 \$1\$32E+01 ppml	0 33282E+02 ppm1	0 18876E+02 ppml		0 30371E+02 ppm1		0 10851E+04 ppml		0 20825E+02 ppm1		0 20830E+03 ppm1	0 44195E+02 ppml		0 61541E+02 ppm1		0 92579E+02 ppml		0 43704E+02 ppm1			0 \$2140E+02 ppm1	
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and name HD2k) and name HA )) peak 28332 weight and name HD2k) and name HA ))	Χ.	and name and name peak 28552	and name HG )) and name HA )) and name HG2 ))	. 8 4	and name HD24)		and name	and name and name eak 28682	and name and name and name	Ψ.	and name HD2*) and name HD1*) peak 28772 weight	and name HD2%) and name HG2%)	peak 28862 weight	and name	and name HULY) and name HA )) peak 28952 weight	and name HD14)	and name HE's ) and name HB's ) peak 29002 weight	and name and name	and name	and name and name peak 29022	and name HE* ) and name HE* )
( ( segid 'BID' and resid 56 and name ( ( segid 'BID' and xesad 25 and anner 25 200 5 500 pask 28332 ( 25332) and resid 6 and name ( ( segid 'BID' and resid 6 and name ( ( segid 'BID' and resid 58 and name	resid 81 1 800 resid 10	BrD " and BrD " and 4 000	"BrD " and resid 102 "BrD " and resid 99 "BrD " and resid 97	A () megad plan and restd by end insmers to ( segad "BrD" and restd 102 and name HD ( segad PrD" and restd 102 and name HD 170 PrD" and and name H2 3 700 PrD" and 2400 1 800 beak 28592 we	18592} segid "BrD " and resid 102 segid "BrD " and resid 107 [28602]	A331 (2004.2) ( segid "BrD " and resid 102 ( segid "BrD " and resid 34 2 000 2 000 2.500 p	Begid "BrD " and resid 102 Begid "BrD " and resid 105 {28682}	( segid "BrD" and resid 102 and hame ( segid "BrD" and resid 28 and hame 4 000 1 500 peak 28682 {28682}	"BrD " and resid 10 "BrD " and resid 10 } "BrD " and resid 10 "BrD " and resid 30	2.700 1.800 1.800 g 800 g (28692) and resid "BrD " and resid 102 ( segid "BrD " and resid 28	(20772) segid "BrD" and resid 102 and name segid "BrD" and resid 78 and name 3 500 3 100 2 000 peak 28772	segid "BYD" and resid 102 segid "BYD" and resid 81 528652	(  segid "BFD" and readd 115 and name (  segid "BFD" and readd 110 and name 3 300 2 700 2 200 peak 28862 ( 28862)	BrD and resid 17	"BrD " and resid 31 "BrD " and resid 31 2 400 2 400	"BrD " and resid 56 "BrD " and resid 60 )	orb " and resid 59 orb " and resid 76 3 100 2.000	"BrD " and	BrD and re	resid 22 2 100	( segid "BrD " and resid 59 (( segid "BrD " and resid 18 {29022} )
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0 761 ppm2 4 631		0 761 ppm2 4.428			0 662 ppm2 4 525		0 662 ppm2 4.427	,				c I	0.662 ppm2 2.347		A12 C CMON 53 A						l
		0 483898+02 ppm1 0 761 ppm2			0 107746+03 ppml 0 662 ppm2 4		0 12398B+03 ppml 0 662 ppm2	;	0 768648+02 ppml 0 760 ppm2 3	0 22598E+02 ppml 0 662 ppm2 3		Company of the com	0 38156E+02 ppml 0.662 ppm2		Court (33 A Louis Co. 310071 A			0 27394E+02 ppml 0 760 ppm2 3		0 27398E+03 ppml 1 254 ppm2 4	:
DD14)  1A ))  1A 2)  1A 2)  1A 2)  1A 3)  1A 3)  1A 3)  1A 3)  1A 3)  1A 3)	name name name	MO14) A43 1) A44 1) A45 10000E+01 Volume O 46399E+02 ppm1 O 761 ppm2 MO14)	and name and name	and rame HD11) and rame HA ))	HA-1) Wasght o 10000E+01 volume o 10774E+03 ppml 0 662 ppm2 4	and name and name and name	poskvianec navyl. 0 10000E+01 volume 0 12198E+03 ppm1 0 662 ppm2 and name HD24)	and name (HA )) and name (HDL*) and name (HBL))	weight 0 10000E+01 volume 0 7664E+02 ppml 0 760 ppm2 3 HD14) KA }}	HD24) HB )) weight 0 10000E+01 volume 0 22594E+02 ppml 0 662 ppm2 3	and name HO24) and name HG1 }) and name HG24		0.10000E+01 volume 0 38156E+02 ppm1 0.662 ppm2	and name HD2N)	and name HD24)	park care weight o toucoeve outside o tables plant outs plant and man HDD 11	and name	HU14) Weigh: 0.10000E-01 volume 0.27394E-02 ppml 0.760 ppm2 3	HD14)	HDZ\$)  **AhA }	HD24)
name BA )) 18052 veright 0 10000E+01 volume 0 28600E+02 ppm1 0 761 ppm2 4 18053 veright 0 10000E+01 volume 10 28600E+02 ppm1 0 761 ppm2 4 18063 veright 1 )	"PLD" and resid 78 and name BLD" and resid 80 and name BLD" and resid 78 and name "BLD" and resid 78 and name "BLD" and resid 60 and name	deaid 78 and name MD14) anid 78 and name MA1  } anid 78 and name MA1  } anid 78 and name MD14 anid 78 and name MD14) anid 78 and name MD14)	resid 25 and name resid 78 and name resid 107 and name	estd 78 and name estd 99 and name	residing and name Ht.) 2.20 peak 2002 weight 0 10000E+01 volume 0 10774E+03 ppml 0 662 ppm2 4	esid 78 and name esid 75 and name esid 78 and name	LOSALOP MAIN SMOOT NOT 0 10000E+01 Volume 0 12398E+03 ppml 0 662 ppm2 resad 78 and name HDZ#)	sead 107 and name HA 1) sead 107 and name HD14) sead 106 and name HD14)	2 300 peak 28112 weight 0 100008+01 volume 0 788648+02 ppml 0 760 ppm2 3 resid 78 and name HD14)	sout 78 and name ED34) 1 600 peak 28142 weight 0 100006+01 volume 0 22598E+02 ppml 0 662 ppm2 3	( segid "BrD" and reald 78 and name MD2*) (( segid "BrD" and reald 79 and name MOI)) OR (28.42) (( segid "BrD" and reald 78 and name MD2*)	and 74 and name HB2 )) sead 76 and name HD2))	1 800 pask 28152 weight 0.10000E+01 volume 0 38186E+02 ppml 0.662 ppm2  resid 78 and name HOS1 0.	resid 78 and name	1) Short and resid 76 and name HD24) Short and resid 75 and name HB24) Short and resid 75 and name HB24)	park care weight o toucoava value o tableva park o care park and man HDD 11	resid 78 and name	and name KD14) and name AD2 HE2) pask 28172 HE2)  0 760 ppm2 3	BED" and resid 76 and hame HDIA) BED" and resid 25 and hame HB ))	name HD31) And Marsh P 10000E+D1 volume 0 27298E+O3 peml 1 254 pem2 4	"BrD" and reald 56 and name HD2%] "BrD" and reald 59 and name HA ))

2 162	1 417	4 910	1 222 4 376	1 260	4,693	1.776	4 622		1 631	4 810
4 607 ppm2	4 607 ppm2	5.445 ppm2	2 334 ppm2 2 141 ppm2	4.509 ppm2	5 758 ppm2	7 246 ppm2	7 012 ppm2		7 758 ppm2	7.711 ppm2
0.92305E+02 ppm1	0.22638E+02 ppm1	0 26724E+03 ppm1	31262E+02 ppml 39276E+02 ppml	0.28077E+02 ppm1	0 20163E+03 ppml	0,342456+02 ppml	0 353986+02 ppml		0 36890E+02 ppml	56898E+03 ppm1
0 10000E+01 Volume 0.9;	0 10000E+01 volume 0.23	0 100005+01 volume 0 2	0 10000E+01 volume 0 3	0 10000E+01 volume 0.2	0 10000E+D1 volume 0 2	0.10000E+01 volume 0.3	0 10000E+01 volume 0 3		0.10000E+01 volume 0 3	0 10000E+01 Volume 0 26898E+03 ppm1
and name HD1 )) and name HB2 )) and name HB2 )) and name HB1 )) and name HB1 )) and name HB1 ) and name HB1 )	HA )) HG2%) HG2%)	nd name HA ))  K 29732 weight  And name HA })  And name HA })  And name HA })  And name HB })	k 30592 weaght and name HB1 ) und name HB2 ) und name HB2 ) und name HB2 ) und name HB ) is no name HB )	and name HB2 )) and name HA )) and name HG )) ak 30952 weight	and name HO2*) and name HO2*) and name HO ) and name HO ) and name HO )	and name HE* ) and name HE ) eak 533 weight and name HE* )		and name HD1 ) and name HD ) and name HD1 ) and name HD1 ) and name HD1 )	and name and name and name	s and name HD%) and name HG2%) and name HG2%) and name HA )) peak 1393 weight
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1 646 ppm2	1 848 ppm2		1 848 ppm2	2 536 ppm2	2 535 ppm2	2 535 ppm2		2 535 ppm2	4 804 ppm2	4.607 ppm2
0 296318+02 ppm1	0 14615E+02 ppm1		0 38252E+02 ppml	763648+02 ppml	0.30281E+02 ppm1	0 29954E+03 ppm1		0 231008+03 ppml	16470E+02 ppml	) 16053E+03 ppml
0.10000E+01 volume 0	0 10000E+01 volume 0		0 10000E+01 volume 0	0 10000E+01 volume 0	0 10000E+01 volume	0.10000E+01 Volume		0.10000E+01 Volume	0 10000E+01 Volume 0 16470E+02	0.10000E+01 Volume 0 16053E+03 ppml
name HBt ) name HEt ) name HG )) 19032 weight name HEt ) name HG ))	HG )) HG11) HG11) HG4 ) Weight	and name HE 1) and name HE 1) and name HA 1) and name HE 1) and name HE 1)	HE' ) HD2') Weight HE' ) HD2')	name HEV ) 9192 weight name HEV ) name HEV )	and name HE's ) and name HB1 )) peak 29202 weight and name HE's ) and name HB1 ))	and name HEV ) and name HEV ) peak 29252 weight and name HEV ) and name HEV )	and name HE* ) and name HG2 )) and name HG1 )) and name HG4 ) and name HG4 )	peak 29262 and name and name and name and name and name and name	and name and name and name eak 29682	ind los and mame HD1 )) lid los and name HD1 )) lid ls and name HR2 )) lid ls and name HR2 )) 2 000 peak 29702 weight lid los and name HB1 ))
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4.930	4 784	4 673	2 755	4 212	5,579	4,791	4.440	1.333	4 791		4 8 E	
7.921 ppm2	8 063 ppm2	8.062 ppm2	8.009 ppm2	7 960 ppm2	7 928 ppm2	7 929 ppm2	7.921 ppm2	7 924 ррт2	7 913 ppm2		7.918 ppm2	
0.10500E+03 ppm1	0 65660E+02 ppm1	0.96219E+02 ppm1	0.25291E+03 ppm1	0 39954E+03 ppml	0 223958+02 ppm1	0 41681E+02 ppml	0.88364E+03 ppml	0 20962E+03 ppml	0 28521E+02 ppml		0 10760E+03 ppml	
0.10000E+01 Volume	0 10000E+01 volume	0.10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0.10000K+01 volume	0.10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume	0 10000E+01 volume		0 10000E+01 volume	
574 weight d name HE3 ))	and name HZ )) and name HB )) eak 604 weight and name HZ ))	and name HZ )) and name HZ )) and name HZ )) and name HZ ))	and name HZ )) and name HB )) and name HB )) eak 704 weight and name HB2 )) and name HB2 ))	and name HB2 )) peak 794 weight 0 and name HDt ) and name HDt )	and name HZ )) and name HD2 )) tak 964 Weight and name HZ )) and name HA ))	and name HZ )) and name HA )) ak 974 weight and name HZ )) and name HA ))	and name HEt ) and name HA )) eak 1044 weight and name HZ ))	and name HA }) and name HZ }) and name HDI*) beak 1074 weight	and name HB1 )) and name HB1 )) and name HZ )) and name HZ ))	and name and name and name	and name HA )) eak 1094 weight and name HEt ) and name HA ))	and name hbv ) and name Hb )) and name Hc ) and name Hc ) and name HA )) and name HA ))
3.200 2.600 2.300 peak 3.201 2.600 2.300 peak 3.74 BrD and resid 32 and 9.991d "BrD" and resid 32 and	( 604) Degad "BED" and resad 107 and Degad "BED" and resad 83 and 2 500 3 100 2 000 peak 604) Beggd BED" and resad 107 and send "BED" and resad 107 and	regid "BD" and reeald 107 and in eegid "BD" and reeald 80 and in eegid "BD" and reeald 80 and in eegid "BD" and reeald 107 and in eegid "BD" and reeald 107 and in eegid "BD" and reeald 110 and in eegid in	segid 'BDD' and sead 10' and ("70') 'BDD' and read 10' and ("70') 'BDD' and read 10' and segid 'BDD' and read 10' and segid 'BDD' and read 20' and "20' 20' 00' 20' 00' peak "90', BDD' and read 30' and "90', and read 30' and "90', and read 30' and "90', and read 30' and 10' and	Begid "BID" and resid 32 2 600 1 700 1 700 734) segid "BID" and resid 47 segid "BID" and resid 47	aegid "BrD" and reard 34 4 200 4 200 1 300 1 300 1 300 964) and reard BrD" and reard 34 segid "BrD" and reard 34 (944)	{ segid "BrD " and resid 34 ( segid "BrD " and resid 98 1 800 3 600 1 700 pg { 974 } 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	( 1044)  segid "BFD" and resid 107 and i  segid "BFD" and resid 79 and i  2.500 1.300 1.300 peak  1.400 mid resid 34 and i	segid "BrD" and resid 99 and 6 L074	seegid "BYD" and reard 107 and a seegid "BYD" and reard 78 and 108 begand "BYD" and reard 34 and seegid "BYD" and reard 98 and 4 000 4,000 1,500 peak 1084)	22 22 2	7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	"BYD" and resid os "BYD" and resid of "BYD" and resid of "BYD" and resid of "BYD" and resid 107 "BYD" and resid 107 "BYD" and resid 107
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	4 431	7 027	4 810	4 387	4 971		1 444	4.424	2.504	0 780	4 007	4.536
				7 618 ppm2 4 387	7 804 ppm2 4 971		6 687 ppm2 1 777	7 366 ppm2 4.424	7 270 ppm2 2.504	7 970 ppm2 0 780	7 970 ppm2 4 007	6 156 ppm2 4.536
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	0 21871E+02 ppml 7 617 ppm2 4	volume 0 130726+02 ppml 7 617 ppm2 7	volume 0 28141E+02 ppm1 7.478 ppm2 4	0 14793E+02 ppml 7 618 ppm2 4	0 11153E-03 ppm1 7 804 ppm2 4		0 552968+02 ppml 6 687 ppm2 1	0 10359E+04 ppml 7 266 ppm2	0 515848+03 ppml 7 270 ppm2	0 557308+02 ppml 7 970 ppm2 0	10000E+01 volume 0 18431E+03 ppml 7 970 ppm2 4	0 219246+03 ppml 6 156 ppm2
and name and name and name	and name HA ))  eak 1763 weight 0 10000E+01 volume 0 21871E+02 ppml 7 617 ppm2 4 and name HE )  and name HB ))	and name HE )	and hame HEA ) and name HD ) and and HD ) and name HD ) peak 1813 weight 0 10000E+01 volume 0 20141E+02 ppml 7.478 ppm2 4	and name HB4 ) and name HB4 ) peak 1893 weight 0 100006+01 Volume 0 14793E+02 ppml 7 6.18 ppm2 4	and name HZ3 )) and name HZ3 )) peak 2063 weight 0 1000008.01 volume 0 11153E-03 ppm1 ' 804 ppm2 4 and name HZ3 )) and name HZ3 ))	and name HE3 )) and name HEV )) and theme HEV ) and name HE )	Second   S	and name KA )) and name HO )	and name HG2 )) and name HG2 )) peak. Joy evsgit 0 10000E+01 volume 0 51584E+03 ppml 7 270 ppm2 and name HD4 ) and name HD2 ))	and name HD18 ) and name HO12) pask 124 vacuum 0 557308.02 ppm1 7 970 ppm2 0 and name HD18 ) and name HD18 )	and hame HD2 )) each finance HD2 )) peak 134 weight 0 100008+01 volume 0 18431E+03 ppm1 7 970 ppm2 4 and name HB1 )) and name HB1 ))	and name HE1 ))  sand mame HE2 ))  pack 554 weight 0.10000E+01 volume 0 21924E+01 ppm1 6 158 ppm2  and name HE1 ))  and name HE1 ))  and name HE1 )  and name HE1 )
resid 96 and name resid 92 and name resid 106 and name	resid 107 and name HA )) 2.100 peak 1763 weight 0 10000E+01 volume 0 21871E+02 ppml 7 617 ppm2 4 2.100 peak 1763 weight 0 10000E+01 volume 0 21871E+02 ppml 7 617 ppm2 7 2.100 peak 178 /) 2.100 peak 178 /) 2.100 peak 178 /)	*BED and resal 100 and name HEV )  *BED ** and resal 106 and name HEV )  *BED ** and resal 34 and name HEV )  *BED ** and resal 34 and name HEV )  *BED ** and resal 68 and name HEV )  *BED ** and resal 68 and name HEV )	name HEW )  name HEW )  name HEW )  tame HEW )  1411 weaght 0 10000E+01 volume 0 20141E+02 ppm1 7.478 ppm2 4	ind reard 50 and name HEB)  Ind reard 56 and name HEB)  Ind reard 56 and name HEB)  Ind reard 50 and name HEB)  Ind reard 50 and name HEB)  Ind reard 50 and name HEB)	Troid 32 and hame HZ3 ))  Troid 32 and hame HZ3 ))  C.000 peak 2063 weight 0 10000E+01 volume 0 11153E-03 ppml 7 804 ppm2 4 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9	real 32 and name H23 )) real 85 and name H23 )) estd 86 and name H24 ) real 96 and name H24 )	1 900 peak 24 weight 0 100008-01 Volume 0 552968-02 ppml 6 687 ppm2 1 1 900 peak 24 weight 0 100008-01 Volume 0 552968-02 ppml 6 687 ppm2 1 2 resuld 46 and name HB ))	reard 3 and name RA ) ) 120 peak 34 weight 0 10000E+01 volume 0 10159E+04 ppml 7 266 ppm2 rearid 82 and name RD4 )	oesd 47 and name NS*) esid 53 and name NG2 )) 1 600 peak (200 yesight 0 10000E+01 volume 0 51584E+03 ppml 7 270 ppm2 esid 82 and name HO4 ) esid 103 and name HO2 ))	name HD9 )	BED * and resid 47 and hame HD2 })  BED * and resid 53 and name HD2 })  2 100 peak 134 weight 0 100008.01 volume 0 18431E+03 ppm1 7 970 ppm2 4  BED * and resid 98 and name HB2 })  BED * and resid 98 and name HB1 })	name HE1 )) name HE2 )) Same HE2 ) Same HE2 ) Name HE1 )) name HE1 )) name HE1 )) name HE1 )) name HE1 )

6 22 23		1 656	4 684			4 926	4 572		Š			1 819	4.278			3 010		2 796	
7.888 ppm2	:	7 888 ppm2	7 811 ppm2			7 798 ppm2	7 798 ppm2					7 799 ppm2	7.797 DBM2			7 790 ppm2		7 786 ppm2	
0 101448+03	:	0 38056E+03 ppm1	0 19434E+03 ppml			0 65395E+03 ppml	27794E+03 ppm1					0 46212E+03 ppm1	0 27340R+03 ppm1			20510E+03 ppm1		0 23703E+03 ppml	
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ame HB1 )) ame HE* ) ame HB )) 294 weight 0	name H2 )) name H011)) name HE*)	name HG2%) 1304 weight name HE%) name HG12))	and name HD% ) and name HA )) sak 1444 weight	and and	P 0	me HA )) ind weight me HDt ) me HA ))	name HD% ) name HA )) 1514 weight 0	пате	and name HD* ) and name HB1 )) and name HB2 ))	and name HDV )	name	name HBZ }) 1554 weight	and name HUF ) and name HDF ) and name HDF )	and name HDt )	name	name HD% ) name HB2 )) 1614 weight 0	name name	1624 weight name HZ3 ))	and name and name and name
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	0 63603E+03 ppm1	0 15242E+04 ppm1		0 54441E+03 ppm1		0 601598+02 ppm1		0.12306£+03 ppm1		0 47618E+03 ppml			54491E+03 ppm1		0 30083E+03 ppm1			84175E+02 ppm1	45504E+03 ppm1
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HA )) HEV ) HA ))			2-	0	HE* )	HE* ) HB1 )) HE* ) HG1 )) weight 0.			HE* ) HG )) HE* ) HE* )	HE% ) HB2 )) weight 0	HE* )	HE\$ ) HB2 )) HZ ))	HB2 )) HB4 ) HB2 )) weight	HE* ) HD2 ))	HE' ) HG11)) weight	HEY )	HB2 )) HZ ))	weight HE't) HA ))	HE' ) HO2 )) Weight HE' )
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:	1 925	2.695	2 146 2 521	1 331	E 559	1.080
	7 611 ppm2	7.534 ppm2	7 534 ppm2	7.530 ppm2	7 530 ppm2	7 520 ppm2
	0.18273E+03 ppml	o 55016E+01 ppm1	0 155198+03 ppml	0 24374E+03 ppml	0 21978E+03 ppml	0.162538+03 ppml
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and name Hth )) and name Hth )) and name Hth )) and name Hth )) and name Hth ) and name Hth ) and name Hth )) and name Hth ) e and name Hth ) is and name Hth )	peak 2524 and name and name and name and name and name	and name HD\$ ) and name HB\$ ) peak 2604 weight and name HB\$ )	and name and name peak 2624 and name and name and name and name	and name	and peak and	and name
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7 889	7 647	4.636			3 221	2 520	2 494	1 496	0.795	0 796
7 005 ppm2	7 005 ppm2	7 005 ppm2			7 004 ppm2	7 005 ppm2	7 004 ppm2	7.005 ppm2	6.687 ppm2	5 740 ppm2
0 13987E+03 ppml	0 17632E+03 ppml	0 95504E+02 ppml			12756E+03 ppm1	0.57581E+02 ppml	0 46728E+02 ppml	0.62447E+02 ppml	0 29261E+03 ppml	0 11437E+03 ppml
o.loocoE.ol volume o	0.10000E+01 volume 0	0 10000E+01 volume 0			0.10000E+01 volume 0	0.10000E+01 volume 0.	0 10000E+01 volume 0	0.10000E+01 volume 0.		0 10000E+01 volume 0
lame HD1%) lame HD1%) lame HD1%) lame HE% ) lame HE% ) lame HE% ) lame HE% )	tame HEV ) tame HEV ) tame HEV ) tame HEV )	and name HA )) peak 3604 weight and name HDt ) and name HDt ) and name HDt )	and name HD* ) and name HA )) and name HA )) and name HA )) and name HA ))	and name HD's ) and name HB 1) and name HB2 )) and name HZ )) and name HX ))	and name HD4 ) and name HG2 )) peak 3634 weight o and name HDV ) and name HDV )	and name HG2 )) and name HD4 ) and name HB2 )) ak 3664 weight and name H2 ))	and name HZ )) and name HB )) ak 3674 weight and name HDt ) and name HB2 ))	and name HDY) and name HDY) and name HD2*) peak 3694 weight and name HDV) and name HDV	and name HBt ) and name HG12) peak 3854 weight and name HBt ) and name HDt ) and name HDt )	3954 weight name HD4 )
segid 'BrD' and resid '4 and resid '4 by and resid 'BrD' and resid '2 and '1564) and resid 'BrD' and resid '8 and in segid 'BrD' and resid '8 and in segid 'BrD' and resid '8 and '1564) and '1564) and '1564 and '1564)	cend 10 2 200 cend 82 cend 82 cend 10	and resid 71 and resid 74 and resid 15 and resid 74 and resid 76	nd resid nd resid nd resid nd resid nd resid	eegid "BED" and reaad 74 [Se04] "BED" and reaad 67 [Se04] "BED" and reaad 67 [Se04] "BED" and read 60 [Se04] "BED" and read 60 [Se04] "BED" and read 60	esid 74 2 400 2 400 esid 74 esid 74	segid "BED" and resid 59 (1964) segid "BED" and resid 74 segid "BED" and resid 63 31.6000 31.6000 31.6000 31.600 31.6000 31.6000 31.6000 31.6000 31.6000 31.6000 31.6000 31.6000	reald 82 xestd 21 1.800 reald 74 reald 59	resid 73 resid 74 resid 63 2 000 2 000	rD " and resid 46 rD " and resid 50 1 800 1.800 rD " and resid 46 rD " and resid 46 rD " and resid 46	2 600 2 300 p
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0.20135£+03 pp*1 0.29307E+03 ppml	491E+03 ppml	0 20070E+03 ppm1	0 37424E+03 ppml	0 238598+03 ppm1	0 18792E+03 ppm1	0 19853E+03 ppm1	0 12383E+03 ppml	0.82384E+02 ppml		0 51806E+03 ppm1
0.10000E+01 volume 0.20	0 10000E+01 Volume 0.24451E+03 ppml	0 10000E+01 volume 0 20	0 10000E+01 Volume 0 37	0 10000E+01 volume 0 23	0 10000E+01 volume 0 18	0 10000E+01 volume 0 19		0 100005+01 volume 0.82;		0 10000E+01 volume 0 51
eak 2914 weight and name HD4 ) and name HB1 )) and name HB1 )) and name HB1 )) eak 3164 weight and name HB1 )) eak 3164 weight and name HB2 ))	and name HDY ) and name HEY ) cak 3284 weight and name HDY ) and name HDY )	and name HEF) and name HA )) esk 3324 weight and name HEF) and name HEF) and name HEF)	lance HB // lance HG //	ame HEV ) ame HG12)) ame HG )) ame HG )) ame HG ))	and name HCV ) and name HB1 )) and name HB1) peak 3464 weight 0 and name HZ )) and name HZ ))	and name HDt ) and name HBl )) eak 3494 weight and name HZ ))	and name HZ )) and name HB ) and name HB ) and name HD ) and name HG ) and name HG )	and name HZ )) and name HB1 )) and name HD4 ) and name HO11)	name name name name	name HD1%) 3554 weight
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2.900 2.914   Eacyth   Eacyth	{ 3284 8 8 9 1 0 2 8 0 0 2 8 0 0 0 0 0 0 0 0 0 0 0 0 0	ASSI ( 3324) ( segid "B ( segid "B 2 900 OR ( 3324) ( segid "B ( segid "B ( segid "B ( segid "B	008 (3394 327 300 008 (3394 327 300 008 (33934 327 300 008 008 008 008 008 008 008 008 008	OK ( 9444) ( 1940) and re ( 196914 "BYD " and	ASSI ( 3484) ASSI ( 3484) ( 86914 '8 ( 86914 '8 ( 86914 '8 ( 86914 '8 ( 86914 '8	ASSI ( 1494) ( 8egid "B ASSI ( 3504)	(( segid "B ( segid "B	OR { 3544} ( segald "B ( segald "B OR { 3544} ( segald "B ( segald "B ( segald "B ( segald "B ( segald "B ( segald "B	OR { Segid "B	( segid "B 2 500 OR ( 3554)

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й н		4.		0 848	2 178			0.763	3 010	5 5 5	1 089
7.005 ppm2	7 534 ppm2	7 689 ppm2		7 615 ppm2	7 611 ppm2			7 616 ppm2	7 534 ppm2	7 904 ppm2	7,539 ppm2
77150E+02 ppml	70341E+03 ppm1	0 13533E+03 ppm1		0 12837E+03 ppm1	0 94963E+02 ppm1			0 14012E+03 ppm1	0 180318+03 ppm1	0 129628+03 ppm1	0.191828+03 ppml
0.10000E+01 volume 0	10000E+01 volume 0	0 10000E+01 volume 0		0 10000E+01 volume 0	0.10000E+01 volume 0			volume			0,10000E+01 volume 0,1
	0							0 10000E+01	0.10000E+01 volume	0 10000E+01 volume	0.10000E+0
HD4 ) HG )) Weight HZ ))	HE' ) HDI') Weight HD' ) HD' )	HDV) HA )) Weight HDV)		HD* ) HD* ) HG12))	HE& ) HG1 )) HE& ) HB& )	HE* ) HB1 )) HE* )		HEV ) Weight HEV ) HGV )	HE	HZ )) KD2 )) weight HE* ) HA ))	HD& ) HB2 }) weight
and name and name peak 4144 and name and name	and name and name peak 4154	and name and name peak 4174 and name	and name and name and name	and name and name and name and name	and name and name and name and name peak 4234	and name and name and name	and and and	and name and name cak 4244 and name	and name and name peak 4284 and name	and name and name peak 4344 and name and name	and name and name eak 4354
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#### Hydrogen Bonding Restraints

!Helix Z	
assign (residue 19 and name HN ) (residue 15 and name O)	1.80 0.0 0.40
assign (residue 19 and name N ) (residue 15 and name O)	2.80 0.30 0.40
assign (residue 22 and name HN ) (residue 18 and name O )	1.80 0.0 0.40
assign (residue 22 and name N ) (residue 18 and name O)	2.80 0.30 0.40
assign (residue 23 and name HN ) (residue 19 and name 0)	1.80 0.0 0.40
assign (residue 23 and name N ) (residue 19 and name O)	2.80 0.30 0.40
assign (residue 24 and name HN ) (residue 20 and name O )	1.80 0.0 0.40
assign (residue 24 and name N ) (residue 20 and name O)	2.80 0.30 0.40
assign (residue 25 and name HN ) (residue 21 and name O)	1.80 0.0 0.40
assign (residue 25 and name N ) (residue 21 and name O )	2.80 0.30 0.40
!Helix B	
assign (residue 75 and name HN ) (residue 71 and name 0)	1.80 0.0 0.40
assign (residue 75 and name N ) (residue 71 and name O)	2.80 0.30 0.40
!assign (residue 77 and name HN ) (residue 73 and name O )	1.80 0.0 0.40
!assign (residue 77 and name N ) (residue 73 and name O)	2.80 0.30 0.40
assign (residue 78 and name HN ) (residue 74 and name 0 ) assign (residue 78 and name N ) (residue 74 and name 0 )	1.80 0.0 0.40 2.80 0.30 0.40
abbigs (residue // and name w / (residue /4 and name o )	2.60 0.30 0.40
assign (residue 79 and name HN ) (residue 75 and name O)	1.80 0.0 0.40
assign (residue 79 and name N ) (residue 75 and name O)	2.80 0.30 0.40
lacgion (recidue 90 and name UN ) (regidue 76 and name 0)	1 00 0 0 0 10
!assign (residue 80 and name HN ) (residue 76 and name O ) !assign (residue 80 and name N ) (residue 76 and name O )	1.80 0.0 0.40 2.80 0.30 0.40
1. ) (1001aao ) and name o	2.00 0.30 0.40
assign (residue 81 and name HN ) (residue 77 and name 0)	1.80 0.0 0.40
assign (residue 81 and name N ) (residue 77 and name O)	2.80 0.30 0.40
assign (residue 82 and name HN ) (residue 78 and name 0)	1.80 0.0 0.40
assign (residue 82 and name N ) (residue 78 and name O)	2.80 0.30 0.40
!Helix C	
assign (residue 102 and name HN ) (residue 98 and name 0 ) assign (residue 102 and name N ) (residue 98 and name 0 )	1.80 0.0 0.40 2.80 0.30 0.40
assign (lesidde 102 and name W ) (lesidde 96 and name O)	2.80 0.30 0.40
assign (residue 103 and name HN ) (residue 99 and name 0 )	1.80 0.0 0.40
assign (residue 103 and name N $$ ) (residue 99 and name O $$	2.80 0.30 0.40
assign (residue 104 and name HN ) (residue 100 and name O)	1 00 0 0 0 11
assign (residue 104 and name HN ) (residue 100 and name O ) assign (residue 104 and name N ) (residue 100 and name O )	1.80 0.0 0.40 2.80 0.30 0.40
5 (1921-1921 - 1	2.00 0.30 0.40
assign (residue 105 and name HN ) (residue 101 and name O)	1.80 0.0 0.40
assign (residue 105 and name N ) (residue 101 and name O )	2.80 0.30 0.40

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Atomic Structure Coordinates of the P/CAF Bromodomain/Acetyl-Histamine Complex

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2459-1-003 (Sheet 1 of 9)

# Structure-based sequence homology alignment of bromodomains

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Figure 1

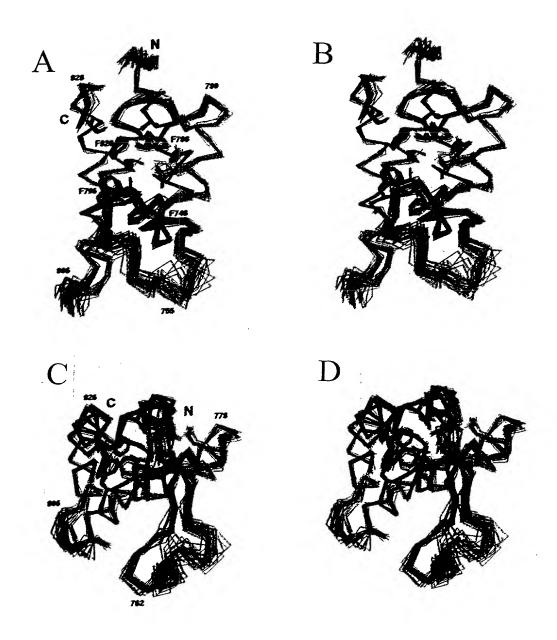


Figure 2A-2D

## Three-Dimensional Structure of the P/CAF Bromodomain

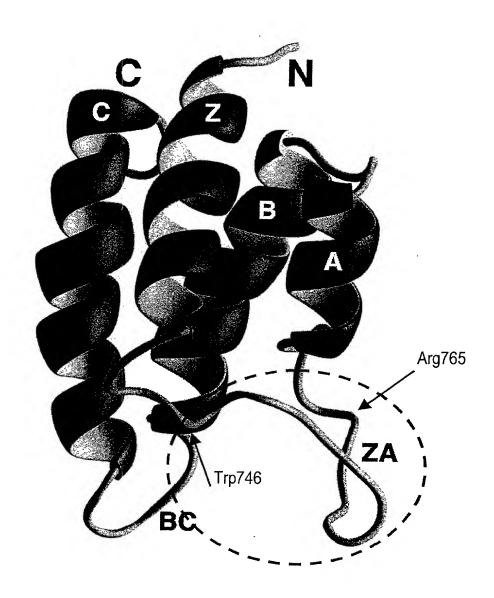


Figure 2E

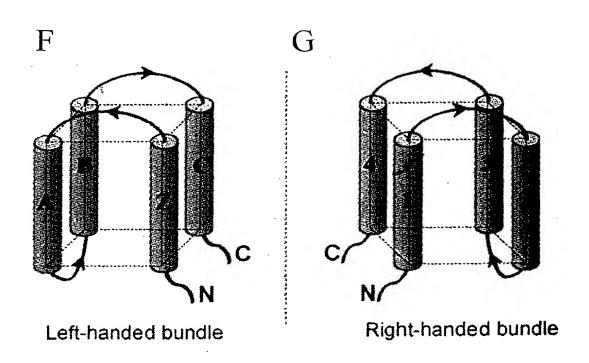


Figure 2F-2G

# 2459-1-003 (Sheet 5 of 9)

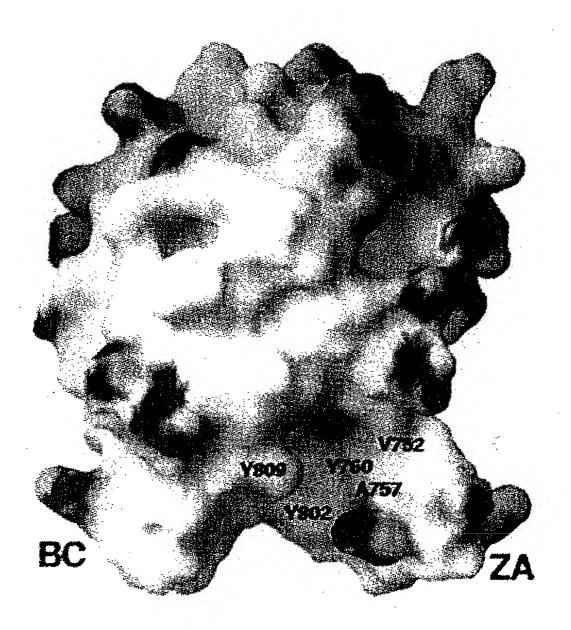


Figure 2H

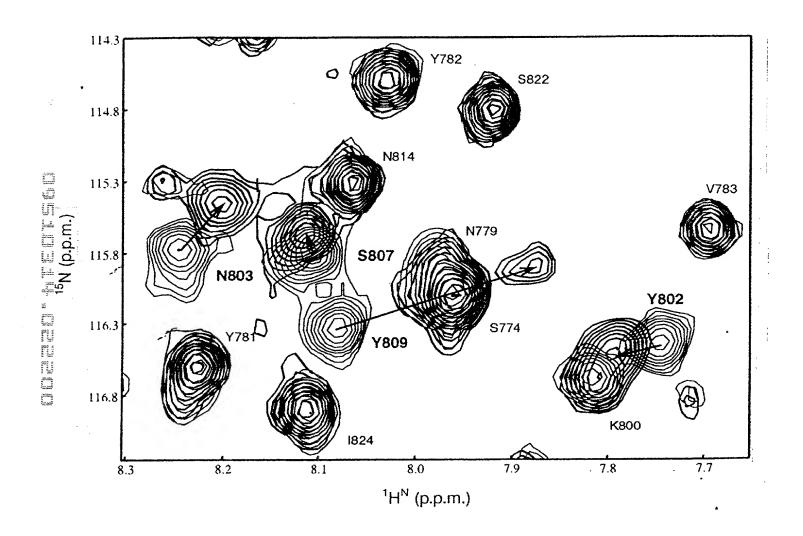


Figure 3A

# 2459-1-003 (Sheet 7 of 9)

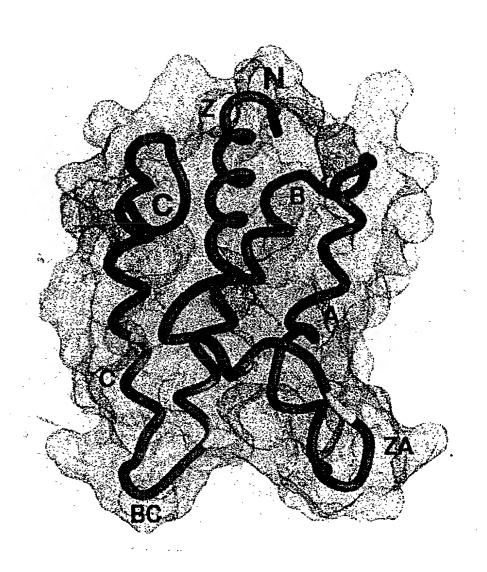


Figure 3B

$$N\varepsilon$$
-acetyl-lysine  $N\omega$ -acetyl-histamine  $N\omega$ -acetyl-histidine

Figure 3C

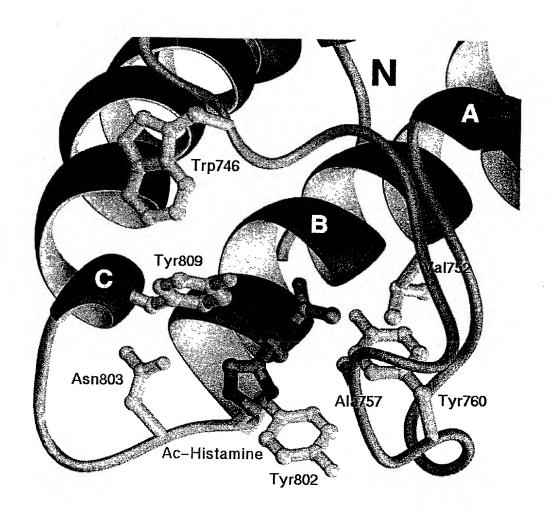


Figure 4

### **DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION**

As below named inventors, we hereby declare that:

the Specification of which

Our residence, post office address and citizenship are as stated below under our names.

We believe that we are the original, first and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled

### METHODS OF IDENTIFYING MODULATORS OF BROMODOMAINS

[X]	is attached hereto was filed on as Application Serial No and was amended on												
		red and understand the contents of ts, as amended by any amendment r											
		e information which is material to t se with Title 37, Code of Federal Ro											
any provisiona §1.119(e), or a within one (1) certificate liste	We hereby claim foreign priority benefits under Title 35, United States Code, §119 of any provisional application filed in the United States in accordance with 35 U.S.C. §1.119(e), or any application for patent that has been converted to a Provisional Application within one (1) year of its filing date, or any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is												
APPLICATIC NUMBER		APPLICATION(S) (DAY/MONTH/YEAR FILED)	PRIORITY CLAIMED										

We hereby claim the benefit under Title 35, United States Code, §120 of any United States application listed below, and, insofar as the subject matter of each of the claims of this application is not disclosed in any prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a), which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

APPLICATION NO.

FILING DATE (DAY/MONTH/YEAR)

STATUS - PATENTED, PENDING, ABANDONED

We hereby appoint as our attorneys or agents the following persons: Stefan J. Klauber (Attorney, Registration No. 22,604); David A. Jackson (Attorney, Registration No. 26,742); Donald J. Cox, Jr. (Attorney, Registration No. 37,804); Michael D. Davis (Attorney, Registration No. 39,161); Allan H. Fried (Attorney, Registration No. 31,253); Christine E. Dietzel (Agent, Registration No. 37,309); and Michael A. Yamin (Agent, Registration No. P44,414), said attorneys or agents with full power of substitution and revocation to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Please address all correspondence regarding this application to:

DAVID A. JACKSON, ESQ. KLAUBER & JACKSON 411 HACKENSACK AVENUE HACKENSACK, NEW JERSEY 07601

Direct all telephone calls to David A. Jackson at (201) 487-5800.

We hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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FULL POST OFFICE ADDRESS:	35 Richmond Drive Greenwich, CT 06870
SIGNATURE OF INVENTOR	
DATE	

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SIGNATURE OF INVENTOR	
DATE	_

### SEQUENCE LISTING

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      Aggarnal, Aneel K
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gaggeggtgg eteggeeega ategeegtga agaaagegea aetaegetee geteegeggg 720
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attttctctc agcctcttcc agaaccagcc agctaggcat ccaaacagtt atcaatccac 1620
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<210> 2
<211> 832
<212> PRT
<213> Homo sapiens
<400> 2
Met Ser Glu Ala Gly Gly Ala Gly Pro Gly Gly Cys Gly Ala Gly Ala
  1
                  5
Gly Ala Gly Ala Gly Pro Gly Ala Leu Pro Pro Gln Pro Ala Ala Leu
             20
                                 25
                                                     30
Pro Pro Ala Pro Pro Gln Gly Ser Pro Cys Ala Ala Ala Ala Gly Gly
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35 40

Ser Gly Ala Cys Gly Pro Ala Thr Ala Val Ala Ala Ala Gly Thr Ala 50 55

Glu Gly Pro Gly Gly Gly Ser Ala Arg Ile Ala Val Lys Lys Ala 65 70 75

Gln Leu Arg Ser Ala Pro Arg Ala Lys Leu Glu Lys Leu Gly Val

				85					90					95	
Tyr	Ser	Ala	Cys 100	Lys	Ala	Glu	Glu	Ser 105	Cys	Lys	Cys	Asn	Gly 110	Trp	Lys
Asn	Pro	Asn 115	Pro	Ser	Pro	Thr	Pro 120	Pro	Arg	Ala	Asp	Leu 125	Gln	Gln	Ile
Ile	Val 130	Ser	Leu	Thr	Glu	Ser 135	Cys	Arg	Ser	Cys	Ser 140	His	Ala	Leu	Ala
Ala 145	His	Val	Ser	His	Leu 150	Glu	Asn	Val	Ser	Glu 155	Glu	Glu	Met	Asn	Arg 160
Leu	Leu	Gly	Ile	Val 165	Leu	Asp	Val	Glu	Tyr 170	Leu	Phe	Thr	Cys	Val 175	His
Lys	Glu	Glu	Asp 180	Ala	Asp	Thr	Lys	Gln 185	Val	Tyr	Phe	Tyr	Leu 190	Phe	Lys
Leu	Leu	Arg 195	Lys	Ser	Ile	Leu	Gln 200	Arg	Gly	Lys	Pro	Val 205	Val	Glu	Gly

Ser Leu Glu Lys Lys Pro Pro Phe Glu Lys Pro Ser Ile Glu Gln Gly 210 215 220

Val Asn Asn Phe Val Gln Tyr Lys Phe Ser His Leu Pro Ala Lys Glu 225 230 235 240

Arg Gln Thr Ile Val Glu Leu Ala Lys Met Phe Leu Asn Arg Ile Asn 245 250 255

Tyr Trp His Leu Glu Ala Pro Ser Gln Arg Arg Leu Arg Ser Pro Asn 260 265 270

Asp Asp Ile Ser Gly Tyr Lys Glu Asn Tyr Thr Arg Trp Leu Cys Tyr 275 280 285

Cys Asn Val Pro Gln Phe Cys Asp Ser Leu Pro Arg Tyr Glu Thr Thr 290 295 300

Gln Val Phe Gly Arg Thr Leu Leu Arg Ser Val Phe Thr Val Met Arg 305 310 315 320

Arg Gln Leu Leu Glu Gln Ala Arg Gln Glu Lys Asp Lys Leu Pro Leu 325 330 335

Glu Lys Arg Thr Leu Ile Leu Thr His Phe Pro Lys Phe Leu Ser Met

340 345 350

Leu Glu Glu Val Tyr Ser Gln Asn Ser Pro Ile Trp Asp Gln Asp Phe Leu Ser Ala Ser Ser Arg Thr Ser Gln Leu Gly Ile Gln Thr Val Ile Asn Pro Pro Pro Val Ala Gly Thr Ile Ser Tyr Asn Ser Thr Ser Ser Ser Leu Glu Gln Pro Asn Ala Gly Ser Ser Pro Ala Cys Lys Ala Ser Ser Gly Leu Glu Ala Asn Pro Gly Glu Lys Arg Lys Met Thr Asp Ser His Val Leu Glu Glu Ala Lys Lys Pro Arg Val Met Gly Asp Ile Pro Met Glu Leu Ile Asn Glu Val Met Ser Thr Ile Thr Asp Pro Ala Ala Met Leu Gly Pro Glu Thr Asn Phe Leu Ser Ala His Ser Ala Arg Asp Glu Ala Ala Arg Leu Glu Glu Arg Arg Gly Val Ile Glu Phe His Val Val Gly Asn Ser Leu Asn Gln Lys Pro Asn Lys Lys Ile Leu Met Trp Leu Val Gly Leu Gln Asn Val Phe Ser His Gln Leu Pro Arg Met Pro Lys Glu Tyr Ile Thr Arg Leu Val Phe Asp Pro Lys His Lys Thr Leu Ala Leu Ile Lys Asp Gly Arg Val Ile Gly Gly Ile Cys Phe Arg Met Phe Pro Ser Gln Gly Phe Thr Glu Ile Val Phe Cys Ala Val Thr Ser Asn Glu Gln Val Lys Gly Tyr Gly Thr His Leu Met Asn His

Leu Lys Glu Tyr His Ile Lys His Asp Ile Leu Asn Phe Leu Thr Tyr

595 600 605

Ala	Asp	Glu	Tyr	Ala	Ile	Gly	Tyr	Phe	Lys	Lys	Gln	Gly	Phe	Ser	Lys
	610					615					620				

- Glu Ile Lys Ile Pro Lys Thr Lys Tyr Val Gly Tyr Ile Lys Asp Tyr 625 630 635 640
- Glu Gly Ala Thr Leu Met Gly Cys Glu Leu Asn Pro Arg Ile Pro Tyr
  645 650 655
- Thr Glu Phe Ser Val Ile Ile Lys Lys Glu Ile Ile Lys Lys 660 665 670
- Leu Ile Glu Arg Lys Gln Ala Gln Ile Arg Lys Val Tyr Pro Gly Leu 675 680 685
- Ser Cys Phe Lys Asp Gly Val Arg Gln Ile Pro Ile Glu Ser Ile Pro 690 695 700
- Gly Ile Arg Glu Thr Gly Trp Lys Pro Ser Gly Lys Glu Lys Ser Lys 705 710 715 720
- Glu Pro Arg Asp Pro Asp Gln Leu Tyr Ser Thr Leu Lys Ser Ile Leu
  725 730 735
- Gln Gln Val Lys Ser His Gln Ser Ala Trp Pro Phe Met Glu Pro Val 740 745 750
- Lys Arg Thr Glu Ala Pro Gly Tyr Tyr Glu Val Ile Arg Phe Pro Met 755 760 765
- Asp Leu Lys Thr Met Ser Glu Arg Leu Lys Asn Arg Tyr Tyr Val Ser 770 780
- Lys Lys Leu Phe Met Ala Asp Leu Gln Arg Val Phe Thr Asn Cys Lys 785 790 795 800
- Glu Tyr Asn Ala Ala Glu Ser Glu Tyr Tyr Lys Cys Ala Asn Ile Leu 805 810 815
- Glu Lys Phe Phe Phe Ser Lys Ile Lys Glu Ala Gly Leu Ile Asp Lys 820 825 830

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<210> 3
<211> 12
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: peptide
<220>
<221> VARIANT
<222> (2)
<223> It represents 2 to 3 undesignated amino acids.
      They can be any amino acids.
<220>
<221> VARIANT
<222> (4)
<223> It represents 5 to 8 undesignated amino acids.
      They can be any amino acids.
<220>
<221> VARIANT
<222> (6)
<223> It represents one undesignated amino acid. It can
      be any amino acid.
<220>
<221> VARIANT
<222> (9)
<223> It represents 5 undesignated amino acids. They can
      be any amino acids.
<220>
<221> VARIANT
<222> (5)
<223> It can be any amino acid from the group of: P, K,
      or H.
<220>
<221> VARIANT
<222> (8)
<223> It can be any amino acid from the group of: Y, F,
      or H.
<220>
<221> VARIANT
<222> (11)
<223> It can be any amino acid from the group of: M, I,
```

or V.

```
<400> 3
Phe Xaa Pro Xaa Xaa Xaa Tyr Xaa Xaa Pro Xaa Asp
                  5
<210> 4
<211> 12
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: peptide
<220>
<221> SITE
<222> (6)
<223> It is acetyl-lysine.
<400> 4
Ile Ser Tyr Gly Arg Xaa Lys Arg Arg Gln Arg Arg
                                      10
<210> 5
<211> 14
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: peptide
<220>
<221> SITE
<222> (8)
<223> It is acetyl-lysine.
<400> 5
Ala Arg Lys Ser Thr Gly Gly Xaa Ala Pro Arg Lys Gln Leu
                                      10
<210> 6
<211> 14
<212> PRT
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: peptide
<220>
<221> SITE
<222> (8)
<223> It is acetyl-lysine.
<400> 6
Gln Ser Thr Ser Arg His Lys Xaa Leu Met Phe Lys Thr Glu
                  5
<210> 7
<211> 110
<212> PRT
<213> Homo sapiens
<400> 7
Ser Lys Glu Pro Arg Asp Pro Asp Gln Leu Tyr Ser Thr Leu Lys Ser
                  5
                                     10
Ile Leu Gln Gln Val Lys Ser His Gln Ser Ala Trp Pro Phe Met Glu
             20
                                  25
                                                      30
Pro Val Lys Arg Thr Glu Ala Pro Gly Tyr Tyr Glu Val Ile Arg Ser
         35
                              40
                                                  45
Pro Met Asp Leu Lys Thr Met Ser Glu Arg Leu Lys Asn Arg Tyr Tyr
     50
                         55
Val Ser Lys Lys Leu Phe Met Ala Asp Leu Gln Arg Val Phe Thr Asn
 65
                     70
                                          75
Cys Lys Glu Tyr Asn Ala Pro Glu Ser Glu Tyr Tyr Lys Cys Ala Asn
Ile Leu Glu Lys Phe Phe Phe Ser Lys Ile Lys Glu Ala Gly
            100
                                105
<210> 8
<211> 110
<212> PRT
<213> Homo sapiens
<400> 8
Gly Lys Glu Leu Lys Asp Pro Asp Gln Leu Tyr Thr Thr Leu Lys Asn
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10

15

Leu Leu Ala Gln Ile Lys Ser His Pro Ser Ala Trp Pro Phe Met Glu 20 25 30

Pro Val Lys Lys Ser Glu Ala Pro Asp Tyr Tyr Glu Val Ile Arg Phe 35 40 45

Pro Ile Asp Leu Lys Thr Met Thr Glu Arg Leu Arg Ser Arg Tyr Tyr 50 55 60

Val Thr Arg Lys Leu Phe Val Ala Asp Leu Gln Arg Val Ile Ala Asn 65 70 75 80

Cys Arg Glu Tyr Asn Pro Pro Asp Ser Glu Tyr Cys Arg Cys Ala Ser 85 90 95

Ala Leu Glu Lys Phe Phe Tyr Phe Lys Leu Lys Glu Gly Gly 100 105 110

<210> 9

<211> 109

<212> PRT

<213> Tetrahymena thermophila

<400> 9

Leu Lys Lys Ser Lys Glu Arg Ser Phe Asn Leu Gln Cys Ala Asn Val 1 5 10 15

Ile Glu Asn Met Lys Arg His Lys Gln Ser Trp Pro Phe Leu Asp Pro
20 25 30

Val Asn Lys Asp Asp Val Pro Asp Tyr Tyr Asp Val Ile Thr Asp Pro 35 40 45

Ile Asp Ile Lys Ala Ile Glu Lys Lys Leu Gln Asn Asn Gln Tyr Val
50 55 60

Asp Lys Asp Gln Phe Ile Lys Asp Val Lys Arg Ile Phe Thr Asn Ala 65 70 75 80

Lys Ile Tyr Asn Gln Pro Asp Thr Ile Tyr Tyr Lys Ala Ala Lys Glu 85 90 95

Leu Glu Asp Phe Val Glu Pro Tyr Leu Thr Lys Leu Lys
100 105

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<210> 10
<211> 109
<212> PRT
<213> Saccharomyces cerevisiae
<400> 10
Ala Gln Arg Pro Lys Arg Gly Pro His Asp Ala Ala Ile Gln Asn Ile
                                      10
                                                          15
Leu Thr Glu Leu Gln Asn His Ala Ala Ala Trp Pro Phe Leu Gln Pro
             20
                                  25
Val Asn Lys Glu Glu Val Pro Asp Tyr Tyr Asp Phe Ile Lys Glu Pro
                              40
Met Asp Leu Ser Thr Met Glu Ile Lys Leu Glu Ser Asn Lys Tyr Gln
                          55
Lys Met Glu Asp Phe Ile Tyr Asp Ala Arg Leu Val Phe Asn Asn Cys
 65
                    70
                                          75
Arg Met Tyr Asn Gly Glu Asn Thr Ser Tyr Tyr Lys Tyr Ala Asn Arg
                 85
                                      90
                                                          95
Leu Glu Lys Phe Phe Asn Asn Lys Val Lys Glu Ile Pro
                                 105
<210> 11
<211> 112
<212> PRT
<213> Homo sapiens
<400> 11
Lys Lys Ile Phe Lys Pro Glu Glu Leu Arg Gln Ala Leu Met Pro Thr
                  5
                                      10
                                                          15
Leu Glu Ala Leu Tyr Arg Gln Asp Pro Glu Ser Leu Pro Phe Arg Gln
             20
                                  25
                                                      30
Pro Val Asp Pro Gln Leu Leu Gly Ile Pro Asp Tyr Phe Asp Ile Val
         35
                                                  45
Lys Ser Pro Met Asp Leu Ser Thr Ile Lys Arg Lys Leu Asp Thr Gly
     50
                          55
                                              60
```

Gln Tyr Gln Glu Pro Trp Gln Tyr Val Asp Asp Ile Trp Leu Met Phe

Asn Asn Ala Trp Leu Tyr Asn Arg Lys Thr Ser Arg Val Tyr Lys Tyr 85 90 95

Cys Ser Lys Leu Ser Glu Val Phe Glu Gln Glu Ile Asp Pro Val Met 100 105 110

<210> 12

<211> 112

<212> PRT

<213> Homo sapiens

<400> 12

Lys Lys Ile Phe Lys Pro Glu Glu Leu Arg Gln Ala Leu Met Pro Thr 1 5 10 15

Leu Glu Ala Leu Tyr Arg Gln Asp Pro Glu Ser Leu Pro Phe Arg Gln
20 25 30

Pro Val Asp Pro Gln Leu Leu Gly Ile Pro Asp Tyr Phe Asp Ile Val 35 40 45

Lys Asn Pro Met Asp Leu Ser Thr Ile Lys Arg Lys Leu Asp Thr Gly 50 55 60

Gln Tyr Gln Glu Pro Trp Gln Tyr Val Asp Asp Val Trp Leu Met Phe 65 70 75 80

Asn Asn Ala Trp Leu Tyr Asn Arg Lys Thr Ser Arg Val Tyr Lys Phe 85 90 95

Cys Ser Lys Leu Ala Glu Val Phe Glu Gln Glu Ile Asp Pro Val Met 100 105 110

<210> 13

<211> 112

<212> PRT

<213> Mus musculus

<400	)> 13	3													
Lys	Lys	Ile	Phe	Lys	Pro	Glu	Glu	Leu	Arg	Gln	Ala	Leu	Met	Pro	Thr
1				5					10					15	

Leu Glu Ala Leu Tyr Arg Gln Asp Pro Glu Ser Leu Pro Phe Arg Gln 20 25 30

Pro Val Asp Pro Gln Leu Leu Gly Ile Pro Asp Tyr Phe Asp Ile Val 35 40 45

Lys Asn Pro Met Asp Leu Ser Thr Ile Lys Arg Lys Leu Asp Thr Gly 50 55 60

Gln Tyr Gln Glu Pro Trp Gln Tyr Val Asp Asp Val Arg Leu Met Phe
65 70 75 80

Asn Asn Ala Trp Leu Tyr Asn Arg Lys Thr Ser Arg Val Tyr Lys Phe \$85\$ 90 95

Cys Ser Lys Leu Ala Glu Val Phe Glu Gln Glu Ile Asp Pro Val Met 100 105 110

<210> 14

<211> 111

<212> PRT

<213> Caenorhabditis elegans

<400> 14

Asp Thr Val Phe Ser Gln Glu Asp Leu Ile Lys Phe Leu Leu Pro Val 1 5 10 15

Trp Glu Lys Leu Asp Lys Ser Glu Asp Ala Ala Pro Phe Arg Val Pro 20 25 30

Val Asp Ala Lys Leu Leu Asn Ile Pro Asp Tyr His Glu Ile Ile Lys 35 40 45

Arg Pro Met Asp Leu Glu Thr Val His Lys Lys Leu Tyr Ala Gly Gln
50 55 60

Tyr Gln Asn Ala Gly Gln Phe Cys Asp Asp Ile Trp Leu Met Leu Asp 65 70 75 80

Asn Ala Trp Leu Tyr Asn Arg Lys Asn Ser Lys Val Tyr Lys Tyr Gly

85 90 95

Leu Lys Leu Ser Glu Met Phe Val Ser Glu Met Asp Pro Val Met
100 105 110

<210> 15

<211> 110

<212> PRT

<213> Homo sapiens

<400> 15

Arg Arg Arg Thr Asp Pro Met Val Thr Leu Ser Ser Ile Leu Glu Ser 1 5 10 15

Ile Ile Asn Asp Met Arg Asp Leu Pro Asn Thr Tyr Pro Phe His Thr
20 25 30

Pro Val Asn Ala Lys Val Val Lys Asp Tyr Tyr Lys Ile Ile Thr Arg 35 40 45

Pro Met Asp Leu Gln Thr Leu Arg Glu Asn Val Arg Lys Arg Leu Tyr 50 55 60

Pro Ser Arg Glu Glu Phe Arg Glu His Leu Glu Leu Ile Val Lys Asn 65 70 75 80

Ser Ala Thr Tyr Asn Gly Pro Lys His Ser Leu Thr Gln Ile Ser Gln 85 90 95

Ser Met Leu Asp Leu Cys Asp Glu Lys Leu Lys Glu Lys Glu
100 105 110

<210> 16

<211> 110

<212> PRT

<213> Mesocricetus auratus

<400> 16

Arg Arg Arg Thr Asp Pro Met Val Thr Leu Ser Ser Ile Leu Glu Ser 1 5 10 15

Ile Ile Asn Asp Met Arg Asp Leu Pro Asn Thr Tyr Pro Phe His Thr
20 25 30

Pro Val Asn Ala Lys Val Val Lys Asp Tyr Tyr Lys Ile Ile Thr Arg 35 40 45 Pro Met Asp Leu Gln Thr Leu Arg Glu Asn Val Arg Lys Arg Leu Tyr 50 55 60

Pro Ser Arg Glu Glu Phe Arg Glu His Leu Glu Leu Ile Val Lys Asn 65 70 75 80

Ser Ala Thr Tyr Asn Gly Pro Lys His Ser Leu Thr Gln Ile Ser Gln 85 90 95

Ser Met Leu Asp Leu Cys Asp Glu Lys Leu Lys Glu Lys Glu 100 105 110

<210> 17

<211> 111

<212> PRT

<213> Homo sapiens

<400> 17

Leu Leu Asp Asp Asp Gln Val Ala Phe Ser Phe Ile Leu Asp Asn 1 5 10 15

Ile Val Thr Gln Lys Met Met Ala Val Pro Asp Ser Trp Pro Phe His
20 25 30

His Pro Val Asn Lys Lys Phe Val Pro Asp Tyr Tyr Lys Val Ile Val 35 40 45

Asn Pro Met Asp Leu Glu Thr Ile Arg Lys Asn Ile Ser Lys His Lys 50 55 60

Tyr Gln Ser Arg Glu Ser Phe Leu Asp Asp Val Asn Leu Ile Leu Ala 65 70 75 80

Asn Ser Val Lys Tyr Asn Gly Pro Glu Ser Gln Tyr Thr Lys Thr Ala 85 90 95

Gln Glu Ile Val Asn Val Cys Tyr Gln Thr Leu Thr Glu Tyr Asp \$100\$ \$105\$ \$110

<210> 18

<211> 111

<212> PRT

<213> Mesocricetus auratus

<400> 18

Leu Leu Asp Asp Asp Gln Val Ala Phe Ser Phe Ile Leu Asp Asn
1 5 10 15

Ile Val Thr Gln Lys Met Met Ala Val Pro Asp Ser Trp Pro Phe His  $20 \\ \hspace{1.5cm} 25 \\ \hspace{1.5cm} 30$ 

His Pro Val Asn Lys Lys Phe Val Pro Asp Tyr Tyr Lys Val Ile Val 35 40 45

Ser Pro Met Asp Leu Glu Thr Ile Arg Lys Asn Ile Ser Lys His Lys 50 55 60

Tyr Gln Ser Arg Glu Ser Phe Leu Asp Asp Val Asn Leu Ile Leu Ala 65 70 75 80

Asn Ser Val Lys Tyr Asn Gly Ser Glu Ser Gln Tyr Thr Lys Thr Ala 85 90 95

Gln Glu Ile Val Asn Val Cys Tyr Gln Thr Leu Thr Glu Tyr Asp 100 105 110

<210> 19

<211> 111

<212> PRT

<213> Homo sapiens

<400> 19

Lys Pro Gly Arg Val Thr Asn Gln Leu Gln Tyr Leu His Lys Val Val 1 5 10 15

Met Lys Ala Leu Trp Lys His Gln Phe Ala Trp Pro Phe Arg Gln Pro 20 25 30

Val Asp Ala Val Lys Leu Gly Leu Pro Asp Tyr His Lys Ile Ile Lys
35 40 45

Gln Pro Met Asp Met Gly Thr Ile Lys Arg Arg Leu Glu Asn Asn Tyr 50 55 60

Tyr Trp Ala Ala Ser Glu Cys Met Gln Asp Phe Asn Thr Met Phe Thr 65 70 75 80

Asn Cys Tyr Ile Tyr Asn Lys Pro Thr Asp Asp Ile Val Leu Met Ala 85 90 95

Gln Thr Leu Glu Lys Ile Phe Leu Gln Lys Val Ala Ser Met Pro 100 105 110

50

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<210> 20
<211> 111
<212> PRT
<213> Homo sapiens
<400> 20
Lys Pro Gly Arg Lys Thr Asn Gln Leu Gln Tyr Met Gln Asn Val Val
                                     10
Val Lys Thr Leu Trp Lys His Gln Phe Ala Trp Pro Phe Tyr Gln Pro
Val Asp Ala Ile Lys Leu Asn Leu Pro Asp Tyr His Lys Ile Ile Lys
         35
                             40
Asn Pro Met Asp Met Gly Thr Ile Lys Lys Arg Leu Glu Asn Asn Tyr
     50
                         55
                                              60
Tyr Trp Ser Ala Ser Glu Cys Met Gln Asp Phe Asn Thr Met Phe Thr
65
                     70
Asn Cys Tyr Ile Tyr Asn Lys Pro Thr Asp Asp Ile Val Leu Met Ala
                 85
                                      90
Gln Ala Leu Glu Lys Ile Phe Leu Gln Lys Val Ala Gln Met Pro
            100
                                105
                                                     110
<210> 21
<211> 111
<212> PRT
<213> Drosophila melanogaster
<400> 21
Arg Pro Gly Arg Asn Thr Asn Gln Leu Gln Tyr Leu Ile Lys Thr Val
                                     10
                                                          15
Met Lys Val Ile Trp Lys His His Phe Ser Trp Pro Phe Gln Gln Pro
             20
```

55

Val Asp Ala Lys Lys Leu Asn Leu Pro Asp Tyr His Lys Ile Ile Lys
35 40 45

Gln Pro Met Asp Met Gly Thr Ile Lys Lys Arg Leu Glu Asn Asn Tyr

Tyr Trp Ser Ala Lys Glu Thr Ile Gln Asp Phe Asn Thr Met Phe Asn 65 70 75 80

Asn Cys Tyr Val Tyr Asn Lys Pro Gly Glu Asp Val Val Met Ala 85 90 95

Gln Thr Leu Glu Lys Val Phe Leu Gln Lys Ile Glu Ser Met Pro 100 105 110

<210> 22

<211> 109

<212> PRT

<213> Saccharomyces cerevisiae

<400> 22

Asn Pro Ile Pro Lys His Gln Gln Lys His Ala Leu Leu Ala Ile Lys 1 5 10 15

Ala Val Lys Arg Leu Lys Asp Ala Arg Pro Phe Leu Gln Pro Val Asp
20 25 30

Pro Val Lys Leu Asp Ile Pro Phe Tyr Phe Asn Tyr Ile Lys Arg Pro 35 40 45

Met Asp Leu Ser Thr Ile Glu Arg Lys Leu Asn Val Gly Ala Tyr Glu 50 55 60

Val Pro Glu Gln Ile Thr Glu Asp Phe Asn Leu Met Val Asn Asn Ser
65 70 75 80

Ile Lys Phe Asn Gly Pro Asn Ala Gly Ile Ser Gln Met Ala Arg Asn 85 90 95

Ile Gln Ala Ser Phe Glu Lys His Met Leu Asn Met Pro 100 105

<210> 23

<211> 113

<212> PRT

<213> Homo sapiens

<400> 23

Lys Lys Gly Lys Leu Ser Glu Gln Leu Lys His Cys Asn Gly Ile Leu

1 5 10 15

Lys Glu Leu Leu Ser Lys Lys His Ala Ala Tyr Ala Trp Pro Phe Tyr

20 , 25 30

Lys Pro Val Asp Ala Ser Ala Leu Gly Leu His Asp Tyr His Asp Ile 35 40 45

Ile Lys His Pro Met Asp Leu Ser Thr Val Lys Arg Lys Met Glu Asn 50 55 60

Arg Asp Tyr Arg Asp Ala Gln Glu Phe Ala Ala Asp Val Arg Leu Met 65 70 75 80

Phe Ser Asn Cys Tyr Lys Tyr Asn Pro Pro Asp His Asp Val Val Ala 85 90 95

Met Ala Arg Lys Leu Gln Asp Val Phe Glu Phe Arg Tyr Ala Lys Met 100 105 110

Pro

<210> 24

<211> 113

<212> PRT

<213> Homo sapiens

<400> 24

Lys Lys Gly Lys Leu Ser Glu His Leu Arg Tyr Cys Asp Ser Ile Leu 1 5 10 15

Arg Glu Met Leu Ser Lys Lys His Ala Ala Tyr Ala Trp Pro Phe Tyr 20 25 30

Lys Pro Val Asp Ala Glu Ala Leu Glu Leu His Asp Tyr His Asp Ile  $35 \hspace{1cm} 40 \hspace{1cm} 45$ 

Ile Lys His Pro Met Asp Leu Ser Thr Val Lys Arg Lys Met Asp Gly 50 55 60

Arg Glu Tyr Pro Asp Ala Gln Gly Phe Ala Ala Asp Val Arg Leu Met 65 70 . 75 80

Phe Ser Asn Cys Tyr Lys Tyr Asn Pro Pro Asp His Glu Val Val Ala 85 90 95

Met Ala Arg Lys Leu Gln Asp Val Phe Glu Met Arg Phe Ala Lys Met 100 105 110

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<210> 25
<211> 113
<212> PRT
<213> Drosophila melanogaster
<400> 25
Asn Lys Glu Lys Leu Ser Asp A
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Asn Lys Glu Lys Leu Ser Asp Ala Leu Lys Ser Cys Asn Glu Ile Leu 1 5 10 15

Lys Glu Leu Phe Ser Lys Lys His Ser Gly Tyr Ala Trp Pro Phe Tyr 20 25 30

Lys Pro Val Asp Ala Glu Met Leu Gly Leu His Asp Tyr His Asp Ile 35 40 45

Ile Lys Lys Pro Met Asp Leu Gly Thr Val Lys Arg Lys Met Asp Asn 50 55 60

Arg Glu Tyr Lys Ser Ala Pro Glu Phe Ala Ala Asp Val Arg Leu Ile 65 70 75 80

Phe Thr Asn Cys Tyr Lys Tyr Asn Pro Pro Asp His Asp Val Val Ala 85 90 95

Met Gly Arg Lys Leu Gln Asp Val Phe Glu Met Arg Tyr Ala Asn Ile 100 105 110

Pro

<400> 26

<210> 26 <211> 113 <212> PRT <213> Saccharomyces cerevisiae

Lys Ser Lys Arg Leu Gln Gln Ala Met Lys Phe Cys Gln Ser Val Leu 1 5 10 15

Lys Glu Leu Met Ala Lys Lys His Ala Ser Tyr Asn Tyr Pro Phe Leu 20 25 30

Glu Pro Val Asp Pro Val Ser Met Asn Leu Pro Thr Tyr Phe Asp Tyr

35 40 45

Val Lys Glu Pro Met Asp Leu Gly Thr Ile Ala Lys Lys Leu Asn Asp 50 55 60

Trp Gln Tyr Gln Thr Met Glu Asp Phe Glu Arg Glu Val Arg Leu Val 65 70 75 80

Phe Lys Asn Cys Tyr Thr Phe Asn Pro Asp Gly Thr Ile Val Asn Met 85 90 95

Met Gly His Arg Leu Glu Glu Val Phe Asn Ser Lys Trp Ala Asp Arg 100 105 110

Pro

<210> 27

<211> 108

<212> PRT

<213> Homo sapiens

<400> 27

Met Glu Met Gln Leu Thr Pro Phe Leu Ile Leu Leu Arg Lys Thr Leu 1 5 10 15

Glu Gln Leu Gln Glu Lys Asp Thr Gly Asn Ile Phe Ser Glu Pro Val 20 25 30

Pro Leu Ser Glu Val Pro Asp Tyr Leu Asp His Ile Lys Lys Pro Met 35 40 45

Asp Phe Phe Thr Met Lys Gln Asn Leu Glu Ala Tyr Arg Tyr Leu Asn 50 55 60

Phe Asp Asp Phe Glu Glu Asp Phe Asn Leu Ile Val Ser Asn Cys Leu 65 70 75 80

Lys Tyr Asn Ala Lys Asp Thr Ile Phe Tyr Arg Ala Ala Val Arg Leu 85 90 95

Arg Glu Gln Gly Gly Ala Val Val Arg Gln Ala Arg
100 105

<210> 28

<211> 113

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<212> PRT
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<213> Homo sapiens

<400> 28

Ser Glu Asp Gln Glu Ala Ile Gln Ala Gln Lys Ile Trp Lys Lys Ala 1 5 10 15

Ile Met Leu Val Trp Arg Ala Ala Ala Asn His Arg Tyr Ala Asn Val 20 25 30

Phe Leu Gln Pro Val Thr Asp Asp Ile Ala Pro Gly Tyr His Ser Ile 35 40 45

Val Gln Arg Pro Met Asp Leu Ser Thr Ile Lys Lys Asn Ile Glu Asn 50 55 60

Gly Leu Ile Arg Ser Thr Ala Glu Phe Gln Arg Asp Ile Met Leu Met 65 70 75 80

Phe Gln Asn Ala Val Met Tyr Asn Ser Ser Asp His Asp Val Tyr His
85 90 95

Met Ala Val Glu Met Gln Arg Asp Val Leu Glu Gln Ile Gln Gln Phe 100 105 110

Leu

<210> 29

<211> 106

<212> PRT

<213> Gallus gallus

<400> 29

Asn Leu Pro Thr Val Asp Pro Ile Ala Val Cys His Glu Leu Tyr Asn 1 5 10 15

Thr Ile Arg Asp Tyr Lys Asp Glu Gln Gly Arg Leu Leu Cys Glu Leu 20 25 30

Phe Ile Arg Ala Pro Lys Arg Arg Asn Gln Pro Asp Tyr Tyr Glu Val 35 40 45

Val Ser Gln Pro Ile Asp Leu Met Lys Ile Gln Gln Lys Leu Lys Met 50 55 60

Glu Glu Tyr Asp Asp Val Asn Val Leu Thr Ala Asp Phe Gln Leu Leu

75

80

Phe Asn Asn Ala Lys Ala Tyr Tyr Lys Pro Asp Ser Pro Glu Tyr Lys 85 90 95

Ala Ala Cys Lys Leu Trp Glu Leu Tyr Leu 100 105

<210> 30

<211> 112

<212> PRT

<213> Gallus gallus

<400> 30

Ser Ser Pro Gly Tyr Leu Lys Glu Ile Leu Glu Gln Leu Leu Glu Ala 1 5 10 15

Val Ala Val Ala Thr Asn Pro Ser Gly Arg Leu Ile Ser Glu Leu Phe 20 25 30

Gln Lys Leu Pro Ser Lys Val Gln Tyr Pro Asp Tyr Tyr Ala Ile Ile 35 40 45

Lys Glu Pro Ile Asp Leu Lys Thr Ile Ala Gln Arg Ile Gln Asn Gly 50 55 60

Thr Tyr Lys Ser Ile His Ala Met Ala Lys Asp Ile Asp Leu Leu Ala 65 70 75 80

Lys Asn Ala Lys Thr Tyr Asn Glu Pro Gly Ser Gln Val Phe Lys Asp 85 90 95

Ala Asn Ala Ile Lys Lys Ile Phe Asn Met Lys Lys Ala Glu Ile Glu
100 105 110

<210> 31

<211> 112

<212> PRT

<213> Gallus gallus

<400> 31

Thr Ser Phe Met Asp Thr Ser Asn Pro Leu Tyr Gln Leu Tyr Asp Thr 1 5 10 15

Val Arg Ser Cys Arg Asn Asn Gln Gly Gln Leu Ile Ser Glu Pro Phe 20 25 30

Phe Gln Leu Pro Ser Lys Lys Tyr Pro Asp Tyr Tyr Gln Gln Ile 35 40 45

Lys Thr Pro Ile Ser Leu Gln Gln Ile Arg Ala Lys Leu Lys Asn His 50 55 60

Glu Tyr Glu Thr Leu Asp Gln Leu Glu Ala Asp Leu Asn Leu Met Phe
65 70 75 80

Glu Asn Ala Lys Arg Tyr Asn Val Pro Asn Ser Ala Ile Tyr Lys Arg 85 90 95

Val Leu Lys Met Gln Gln Val Met Gln Ala Lys Lys Lys Glu Leu Ala 100 105 110

<210> 32

<211> 113

<212> PRT

<213> Gallus gallus

<400> 32

Ser Lys Lys Asn Met Arg Lys Gln Arg Met Lys Ile Leu Tyr Asn Ala 1 5 10 15

Val Leu Glu Ala Arg Glu Ser Gly Thr Gln Arg Arg Leu Cys Asp Leu 20 25 30

Phe Met Val Lys Pro Ser Lys Lys Asp Tyr Pro Asp Tyr Tyr Lys Ile
35 40 45

Ile Leu Glu Pro Met Asp Leu Lys Met Ile Glu His Asn Ile Arg Asn 50 55 60

Asp Lys Tyr Val Gly Glu Glu Ala Met Ile Asp Asp Met Lys Leu Met 65 70 75 80

Phe Arg Asn Ala Arg His Tyr Asn Glu Glu Gly Ser Gln Val Tyr Asn 85 90 95

Asp Ala His Met Leu Glu Lys Ile Leu Lys Glu Lys Arg Lys Glu Leu

Gly

<210> 33

<211> 115

<212> PRT

<213> Gallus gallus

100

<400> 33

Lys Lys Ser Lys Tyr Met Thr Pro Met Gln Gln Lys Leu Asn Glu Val 5 15 10

Tyr Glu Ala Val Lys Asn Tyr Thr Asp Lys Arg Gly Arg Arg Leu Ser 20 25

Ala Ile Phe Leu Arg Leu Pro Ser Arg Ser Glu Leu Pro Asp Tyr Tyr 40

Ile Thr Ile Lys Lys Pro Val Asp Met Glu Lys Ile Arg Ser His Met 55

Met Ala Asn Lys Tyr Gln Asp Ile Asp Ser Met Val Glu Asp Phe Val 70 75

Met Met Phe Asn Asn Ala Cys Thr Tyr Asn Glu Pro Glu Ser Leu Ile 85 90

Tyr Lys Asp Ala Leu Val Leu His Lys Val Leu Leu Glu Thr Arg Arg 100 105 110

Glu Ile Glu 115

<210> 34

<211> 112

<212> PRT

<213> Unknown

<220>

<223> Description of Unknown Organism: Cited from Jeanmougin et al., Trends in Biochemical Sciences, 22:151-153 (1997)

<400> 34

His Asn Ala Pro Phe Asp Lys Thr Lys Phe Asp Glu Val Leu Glu Ala 1 5 10 15

Leu Val Gly Leu Lys Asp Asn Glu Gly Asn Pro Phe Asp Asp Ile Phe 20 25 30

Glu Glu Leu Pro Ser Lys Arg Tyr Phe Pro Asp Tyr Tyr Gln Ile Ile 35 40 45

Gln Lys Pro Ile Cys Tyr Lys Met Met Arg Asn Lys Ala Lys Thr Gly 50 60

Lys Tyr Leu Ser Met Gly Asp Phe Tyr Asp Asp Ile Arg Leu Met Val 65 70 75 80

Ser Asn Ala Gln Thr Tyr Asn Met Pro Gly Ser Leu Val Tyr Glu Cys 85 90 95

Ser Val Leu Ile Ala Asn Thr Ala Asn Ser Leu Glu Ser Lys Asp Gly
100 105 110

<210> 35

<211> 113

<212> PRT

<213> Unknown

<220>

<223> Description of Unknown Organism: Cited from
 Jeanmougin et al., Trends in Biochemical Sciences,
 22:151-153 (1997)

<400> 35

Gly Thr Asn Glu Ile Asp Val Pro Lys Val Ile Gln Asn Ile Leu Asp 1 5 10 15

Ala Leu His Glu Glu Lys Asp Glu Gln Gly Arg Phe Leu Ile Asp Ile 20 25 30

Phe Ile Asp Leu Pro Ser Lys Arg Leu Tyr Pro Asp Tyr Tyr Glu Ile 35 40 45

Ile Lys Ser Pro Met Thr Ile Lys Met Leu Glu Lys Arg Phe Lys Lys 50 55 60

Gly Glu Tyr Thr Thr Leu Glu Ser Phe Val Lys Asp Leu Asn Gln Met 65 70 75 80

Phe Ile Asn Ala Lys Thr Tyr Asn Ala Pro Gly Ser Phe Val Tyr Glu 85 90 95

Asp Ala Glu Lys Leu Ser Gln Leu Ser Ser Ser Leu Ile Ser Ser Phe 100 105 110

Ser

<210> 36

<211> 113

<212> PRT

<213> Homo sapiens

<400> 36

Gly Thr Asn Glu Ile Asp Val Pro Lys Val Ile Gln Asn Ile Leu Asp 1 5 10 15

Ala Leu His Glu Glu Lys Asp Glu Gln Gly Arg Phe Leu Ile Asp Ile 20 25 30

Phe Ile Asp Leu Pro Ser Lys Arg Leu Tyr Pro Asp Tyr Tyr Glu Ile 35 40 45

Ile Lys Ser Pro Met Thr Ile Lys Met Leu Glu Lys Arg Phe Lys Lys 50 55 60

Gly Glu Tyr Thr Thr Leu Glu Ser Phe Val Lys Asp Leu Asn Gln Met 65 70 75 80

Phe Ile Asn Ala Lys Thr Tyr Asn Ala Pro Gly Ser Phe Val Tyr Glu 85 90 95

Asp Ala Glu Lys Leu Ser Gln Leu Ser Ser Ser Leu Ile Ser Ser Phe 100 105 110

Ser

<210> 37

<211> 114

<212> PRT

<213> Homo sapiens

Val Phe Ile Gln Leu Pro Ser Arg Lys Glu Leu Pro Glu Tyr Tyr Glu 35 40 45

Leu Ile Arg Lys Pro Val Asp Phe Lys Lys Ile Lys Glu Arg Ile Arg 50 55 60

Asn His Lys Tyr Arg Ser Leu Asn Asp Leu Glu Lys Asp Val Met Leu 65 70 75 80

Leu Cys Gln Asn Ala Gln Thr Phe Asn Leu Glu Gly Ser Leu Ile Tyr 85 90 95

Glu Asp Ser Ile Val Leu Gln Ser Val Phe Thr Ser Val Arg Gln Lys 100 105 110

Ile Glu

<210> 38 <211> 113 <212> PRT

<213> Gallus gallus

<400> 38

Ser Pro Asn Pro Pro Lys Leu Thr Lys Gln Met Asn Ala Ile Ile Asp 1 5 10 15

Thr Val Ile Asn Tyr Lys Asp Ser Ser Gly Arg Gln Leu Ser Glu Val 20 25 30

Phe Ile Gln Leu Pro Ser Arg Lys Glu Leu Pro Glu Tyr Tyr Glu Leu 35 40 45

Ile Arg Lys Pro Val Asp Phe Lys Lys Ile Lys Glu Arg Ile Arg Asn 50 55 60

His Lys Tyr Arg Ser Leu Gly Asp Leu Glu Lys Asp Val Met Leu Leu 65 70 75 80

Cys His Asn Ala Gln Thr Phe Asn Leu Glu Gly Ser Gln Ile Tyr Glu 85 90 95

Asp Ser Ile Val Leu Gln Ser Val Phe Lys Ser Ala Arg Gln Lys Ile 100 105 110

Ala

<210> 39

<211> 114

<212> PRT

<213> Gallus gallus

<400> 39

Ser Pro Asn Pro Pro Asn Leu Thr Lys Lys Met Lys Lys Ile Val Asp 1 5 10 15

Ala Val Ile Lys Tyr Lys Asp Ser Ser Ser Gly Arg Gln Leu Ser Glu 20 25 30

Val Phe Ile Gln Leu Pro Ser Arg Lys Glu Leu Pro Glu Tyr Tyr Glu 35 40 45

Leu Ile Arg Lys Pro Val Asp Phe Lys Lys Ile Lys Glu Arg Ile Arg 50 55 60

Asn His Lys Tyr Arg Ser Leu Asn Asp Leu Glu Lys Asp Val Met Leu 65 70 75 80

Leu Cys Gln Asn Ala Gln Thr Phe Asn Leu Glu Val Ser Leu Ile Tyr 85 90 95

Glu Asp Ser Ile Val Leu Gln Ser Val Phe Thr Ser Val Arg Gln Lys
100 105 110

Ile Glu

<210> 40

<211> 105

<212> PRT

<213> Homo sapiens

<400> 40

Ala Lys Leu Ser Pro Ala Asn Gln Arg Lys Cys Glu Arg Val Leu Leu

1 5 10 15

Ala Leu Phe Cys His Glu Pro Cys Arg Pro Leu His Gln Leu Ala Thr 20 25 30

Asp Ser Thr Phe Ser Leu Asp Gln Pro Gly Gly Thr Leu Asp Leu Thr 35 40 45

Leu Ile Arg Ala Arg Leu Gln Glu Lys Leu Ser Pro Pro Tyr Ser Ser 50 55 60

Pro Gln Glu Phe Ala Gln Asp Val Gly Arg Met Phe Lys Gln Phe Asn 65 70 75 80

Lys Leu Thr Glu Asp Lys Ala Asp Val Gln Ser Ile Ile Gly Leu Gln \$85\$ 90 95

Arg Phe Phe Glu Thr Arg Met Asn Glu
100 105

<210> 41

<211> 105

<212> PRT

<213> Mus musculus

<400> 41

Ala Lys Leu Ser Pro Ala Asn Gln Arg Lys Cys Glu Arg Val Leu Leu 1 5 10 15

Ala Leu Phe Cys His Glu Pro Cys Arg Pro Leu His Gl<br/>n Leu Ala Thr $20 \\ 25 \\ 30$ 

Asp Ser Thr Phe Ser Met Glu Gln Pro Gly Gly Thr Leu Asp Leu Thr 35 40 45

Leu Ile Arg Ala Arg Leu Gln Glu Lys Leu Ser Pro Pro Tyr Ser Ser 50 55 60

Pro Gln Glu Phe Ala Gln Asp Val Gly Arg Met Phe Lys Gln Phe Asn 65 70 75 80

Lys Leu Thr Glu Asp Lys Ala Asp Val Gln Ser Ile Ile Gly Leu Gln
85 90 95

Arg Phe Phe Glu Thr Arg Met Asn Asp 100 105 7

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<210> 42
<211> 108
<212> PRT
<213> Mus sp.
<400> 42
Thr Lys Leu Thr Pro Ile Asp Lys Arg Lys Cys Glu Arg Leu Leu
                                     10
                                                          15
Phe Leu Tyr Cys His Glu Met Ser Leu Ala Phe Gln Asp Pro Val Pro
             20
                                 25
Leu Thr Val Pro Asp Tyr Tyr Lys Ile Ile Lys Asn Pro Met Asp Leu
                             40
Ser Thr Ile Lys Lys Arg Leu Gln Glu Asp Tyr Cys Met Tyr Thr Lys
                         55
Pro Glu Asp Phe Val Ala Asp Phe Arg Leu Ile Phe Gln Asn Cys Ala
                    70
                                         75
Glu Phe Asn Glu Pro Asp Ser Glu Val Ala Asn Ala Gly Ile Lys Leu
                 85
                                     90
                                                          95
Glu Ser Tyr Phe Glu Glu Leu Leu Lys Asn Leu Tyr
            100
                                105
<210> 43
<211> 13
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: consencus
<220>
<221> VARIANT
<222> (1)
<223> It represents 2 amino acids. They can be any amino
      acids.
<220>
<221> VARIANT
<222> (3)
<223> It represents 2 to 3 amino acids. They can be any
```

amino acids.

```
<220>
<221> VARIANT
<222> (5)
<223> It represents 5 to 8 amino acids. They can be any
      amino acids.
<220>
<221> VARIANT
<222> (7)
<223> It represents one amino acids. It can be any amino
      acid.
<220>
<221> VARIANT
<222> (10)
<223> It represents 5 amino acids. They can be any amino
      acids.
<220>
<221> VARIANT
<222> (6)
<223> It represents any amino acid from the group of: P,
      K, or H.
<220>
<221> VARIANT
<222> (9)
<223> It represents any amino acid from the group of: Y,
     F, or H.
<220>
<221> VARIANT
<222> (12)
<223> It represents any amino acid from the group of: M,
      I, or V.
<400> 43
Xaa Phe Xaa Pro Xaa Xaa Xaa Tyr Xaa Xaa Pro Xaa Asp
                  5
                                      10
<210> 44
<211> 20
<212> PRT
<213> Artificial Sequence
<220>
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<223> Description of Artificial Sequence: consencus

<400> 44

Trp Pro Phe Met Glu Pro Val Lys Arg Thr Glu Ala Pro Gly Tyr Tyr 1 5 10 15

Glu Val Ile Arg

20